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OM protein - protein search, using sw model

Run on: February 27, 2005, 17:37:56 ; Search time 133 Seconds

(without alignments)
1107.459 Million cell updates/sec

Title: US-10-681-223-2

Perfect score: 2362
Sequence: 1 MAPARRLLRGLSPILGRR.....SREKVLQTVLSLQNSFSEP 449

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1385339 seqs, 328044528 residues

Total number of hits satisfying chosen parameters: 1385339

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
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- 9: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 10: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
- 13: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
- 14: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
- 16: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
- 17: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
- 18: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
- 19: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
- 20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2362	100.0	449	14	US-10-277-032-2
2	2362	100.0	449	15	US-10-681-223-2
3	795.5	33.7	508	14	US-10-277-032-4
4	795.5	33.7	508	15	US-10-681-223-4
5	155	5.9	196	15	US-10-369-493-911
6	140	5.6	243	15	US-10-282-122A-67367
7	131.5	5.6	199	15	US-10-282-122A-53917
8	128.5	5.4	205	15	US-10-369-493-11256
9	128.5	5.4	253	16	US-10-437-963-196428
10	127.5	5.4	205	15	US-10-369-493-21577
11	127.5	5.4	259	15	US-10-369-493-22800
12	126.5	5.4	263	15	US-10-425-114-64336
13	126	5.3	210	9	US-09-815-242-11027

14	126	5.3	210	15	US-10-282-122A-58176	Sequence 58176, A
15	125.5	5.3	205	15	US-10-369-493-13320	Sequence 13320, Ap
16	125.5	5.3	205	15	US-10-369-493-20385	Sequence 20385, A
17	125	5.3	212	15	US-10-282-122A-61591	Sequence 61591, A
18	124.5	5.3	212	15	US-10-282-122A-77370	Sequence 77370, A
19	122.5	5.2	1664	16	US-10-437-963-107768	Sequence 107768, A
20	121	5.1	980	14	US-10-156-761-11338	Sequence 11338, A
21	120	5.1	206	15	US-10-282-122A-50167	Sequence 50167, A
22	120	5.1	212	15	US-10-369-493-23045	Sequence 23045, A
23	118.5	5.0	188	15	US-10-369-493-21453	Sequence 21453, A
24	118.5	5.0	216	16	US-10-369-493-22188	Sequence 22188, A
25	118.5	5.0	216	16	US-10-754-929-3	Sequence 3, Appl1
26	118.5	5.0	1357	16	US-10-437-963-164009	Sequence 164009, A
27	118	5.0	193	15	US-10-369-493-18097	Sequence 18097, A
28	117.5	5.0	195	15	US-10-369-493-70	Sequence 70, Appl1
29	117.5	5.0	213	9	US-09-815-242-10129	Sequence 10129, A
30	117.5	5.0	213	15	US-10-369-493-797	Sequence 797, App
31	117.5	5.0	213	15	US-10-282-122A-56520	Sequence 56520, A
32	117.5	5.0	213	16	US-10-754-929-2	Sequence 2, Appl1
33	117.5	5.0	1750	16	US-10-437-963-194022	Sequence 194022, A
34	117	5.0	211	15	US-10-369-493-18331	Sequence 18331, A
35	116.5	4.9	213	15	US-10-282-122A-59458	Sequence 59458, Ap
36	116.5	4.9	218	15	US-10-369-493-5538	Sequence 5538, Ap
37	116	4.9	196	15	US-10-369-493-8559	Sequence 8559, Ap
38	115	4.9	206	15	US-10-282-122A-47929	Sequence 47929, A
39	114	4.8	1532	16	US-10-437-963-112468	Sequence 112468, A
40	113.5	4.8	210	15	US-10-369-493-286	Sequence 286, App
41	113	4.8	348	15	US-10-369-493-4190	Sequence 4190, Ap
42	112.5	4.8	201	15	US-10-369-493-4374	Sequence 4374, Ap
43	112.5	4.8	206	15	US-10-282-122A-49192	Sequence 49192, A
44	112.5	4.8	213	15	US-10-282-122A-55481	Sequence 55481, A
45	112.5	4.8	1753	16	US-10-437-963-107684	Sequence 107684, A

ALIGNMENTS

RESULT 1
US-10-277-032-2
; Sequence 2, Application US/10277032
; Publication No. US20030087294A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: C1001305 DIV
; CURRENT APPLICATION NUMBER: US/10/277,032
; CURRENT FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 449
; TYPE: PRT
; ORGANISM: Homosapien
; US-10-277-032-2

Query Match 100.0%; Score 2362; DB 14; Length 449;
Best Local Similarity 100.0%; Pred. No. 4.2e-201;
Matches 449; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAPARRLLRGLSPILGRRGVCAWAPCRFVLEIPDCTLAHPALGADAPDDADDP 60
1 MAPARRLLRGLSPILGRRGVCAWAPCRFVLEIPDCTLAHPALGADAPDDADDP 60
QY RLAAALGPPRRSLSLCVPTPPDAGCARVPAALHQRLLHQRGPPQRQLRLCYCP 120
RLAAALGPPRRSLSLCVPTPPDAGCARVPAALHQRLLHQRGPPQRQLRLCYCP 120
Db RLAAALGPPRRSLSLCVPTPPDAGCARVPAALHQRLLHQRGPPQRQLRLCYCP 120
QY 121 GGOAGAGQOGLFLRDPDDEDTQALLETLLGACQEAAPRHILGFEADPRQLQWRLWEVQ 180
GGOAGAGQOGLFLRDPDDEDTQALLETLLGACQEAAPRHILGFEADPRQLQWRLWEVQ 180

Db 121 GGAGAGAAQGGFLRDLDDPDTTQALIELGACQEAEPRLHGEADPRGLQWRMEVQ 180
Qy 181 DGRRLQVGCAGVVPPEPRLHPVVDLPSSVVPFEDREARAVLEECSTFIPPEARAVLDLV 240
Db 181 DGRRLQVGCAGVVPPEPRLHPVVDLPSSVVPFEDREARAVLEECSTFIPPEARAVLDLV 240
Qy 241 DQCPKQIQKGFQVVAIEGLDATGKTTVQSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
Db 241 DQCPKQIQKGFQVVAIEGLDATGKTTVQSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
Qy 301 IIRAFYSLGNIVYASIEIAKESAKSPVIYDRYWHSTATVTAIATEVSGGLQHLPPAHHPVY 360
Db 301 IIRAFYSLGNIVYASIEIAKESAKSPVIYDRYWHSTATVTAIATEVSGGLQHLPPAHHPVY 360
Qy 361 QWPEDLKLPDLILLITVSPERLQRLQGRGMEKTRERAELEANSVFRQKTEMSTYORMENP 420
Db 361 QWPEDLKLPDLILLITVSPERLQRLQGRGMEKTRERAELEANSVFRQKTEMSTYORMENP 420
Qy 421 GCHVVDASPSREKVLQTVLSLQNSFSEP 449
Db 421 GCHVVDASPSREKVLQTVLSLQNSFSEP 449

RESULT 2

US-10-681-223-2
; Sequence 2, Application US/10681223
; Publication No. US20040081999A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001305 DIV-II
; CURRENT APPLICATION NUMBER: US/10/681,223
; PRIOR FILING DATE: 2003-10-09
; PRIOR APPLICATION NUMBER: 10/277,032
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 449
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-681-223-2

Query Match 100.0%; Score 2362; DB 15; Length 449;
Best Local Similarity 100.0%; Pred. No. 4, 2e-201;
Matches 449; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MAFARRLNGPLSGPLGRGVGAGAMAPPCRFVLELPDCTLAHFAIAGADAPGDADAPP 60
Db 1 MAFARRLNGPLSGPLGRGVGAGAMAPPCRFVLELPDCTLAHFAIAGADAPGDADAPP 60
Qy 61 RLAAALGPPERSYSLCVPTTPDAGCGARYAARLHQRLLHQRGRFQRCQLRLCYCP 120
Db 61 RLAAALGPPERSYSLCVPTTPDAGCGARYAARLHQRLLHQRGRFQRCQLRLCYCP 120
Qy 121 GGOAGAGQGGFLLRDLPDTRQALIELGACQEAEPRLHGEADPRGLQWRMEVQ 180
Db 121 GGOAGAGQGGFLLRDLPDTRQALIELGACQEAEPRLHGEADPRGLQWRMEVQ 180
Qy 181 DGRRLQVGCAGVVPPEPRLHPVVDLPSSVVPFEDREARAVLEECSTFIPPEARAVLDLV 240
Db 181 DGRRLQVGCAGVVPPEPRLHPVVDLPSSVVPFEDREARAVLEECSTFIPPEARAVLDLV 240
Qy 241 DQCPKQIQKGFQVVAIEGLDATGKTTVQSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
Db 241 DQCPKQIQKGFQVVAIEGLDATGKTTVQSVADSLKAVLLKSPSCIGQWRKIFDDEPT 300
Qy 301 IIRAFYSLGNIVYASIEIAKESAKSPVIYDRYWHSTATVTAIATEVSGGLQHLPPAHHPVY 360
Db 301 IIRAFYSLGNIVYASIEIAKESAKSPVIYDRYWHSTATVTAIATEVSGGLQHLPPAHHPVY 360

Db 301 IIRAFYSLGNIVYASIEIAKESAKSPVIYDRYWHSTATVTAIATEVSGGLQHLPPAHHPVY 360
Qy 361 QWPEDLKLPDLILLITVSPERLQRLQGRGMEKTRERAELEANSVFRQKTEMSTYORMENP 420
Db 361 QWPEDLKLPDLILLITVSPERLQRLQGRGMEKTRERAELEANSVFRQKTEMSTYORMENP 420
Qy 421 GCHVVDASPSREKVLQTVLSLQNSFSEP 449
Db 421 GCHVVDASPSREKVLQTVLSLQNSFSEP 449

RESULT 3

US-10-277-032-4
; Sequence 4, Application US/10277032
; Publication No. US20030087294A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001305 DIV
; CURRENT APPLICATION NUMBER: US/10/277,032
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 508
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-277-032-4

Query Match 33.7%; Score 795.5; DB 14; Length 508;
Best Local Similarity 48.1%; Pred. No. 9, 8e-62;
Matches 177; Conservative 0; Mismatches 4; Indels 187; Gaps 2;

Qy 225 ECTSFIPPEARAVLDLVDCPKQKGFQVVAIEGLDATGKTTVQSVADSLKAVLLKSP 284
Db 1 ECTSFIPPEARAVLDLVDCPKQKGFQVVAIEGLDATGKTTVQSVADSLKAVLLKSP 60
Qy 285 ----- 284
Db 61 CTSFIPPEARAVLDLVDCPKQKGFQVVAIEGLDATGKTTVQSVADSLKAVLLKSP 120
Qy 285 -----PSCIGQWRKIFDDEPTIIR 303
Db 121 PKEVQKGFQVVAIEGLDATGKTTVQSVADSLKAVLLKSP 180
Qy 304 RAFFSLGNIVYASIEIAKESAKSPVIYDRYWHSTATVTAIATEVSGGLQHLPPAHHPVY 360
Db 181 RAFFSLGNIVYASIEIAKESAKSPVIYDRYWHSTATVTAIATEVSGGLQHLPPAHHPVY 240
Qy 326 -----PVIYDRYWHSTA 337
Db 241 HSTATYPCIKPVEBDLLMNLSPFEPFILMANYIVASIEIAKESAKSPVIYDRYWHSTA 300
Qy 338 TYAATVTSGLQHLPPAHHPVYQWPEDLKLPDLILLITVSPERLQRLQGRGMEKTRER 397
Db 301 TYAATVTSGLQHLPPAHHPVYQWPEDLKLPDLILLITVSPERLQRLQGRGMEKTRER 360
Qy 398 AELANSV 405
Db 361 AELANSV 368

RESULT 4

US-10-681-223-4
; Sequence 4, Application US/10681223
; Publication No. US20040081999A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC

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US-10-369-493-911
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001305 DIV-II
; CURRENT APPLICATION NUMBER: US/10/681,223
; PRIOR FILING DATE: 2003-10-09
; PRIOR APPLICATION NUMBER: 10/277,032
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; PRIOR FILING DATE: 2001-10-31
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 508
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-681-223-4
Query Match      33.7%; Score 795.5; DB 15; Length 508;
Best Local Similarity 48.1%; Pred. No. 9,8e-62;
Matches 177; Conservative 0; Mismatches 4; Indels 187; Gaps 2;

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DB      1 ECTSFIEARAVLDLVDQCCKIOKGFQVVAEGLDATGKTITVTQSVDLSKAVLLKSP 60

QY      285 - 284
DB      61 CTSFIPARAVALDLVDQCCKIOKGFQVVAEGLDATGKTITVTQSVDLSKAVLLKSP 120

QY      285 - 180
DB      121 PKEVOKKFOVAIEGLDATGKTTLTQHFKSLRLSSYSRHPSCIGQMWRKIFDDEPTIIR 180

QY      304 RAFYSLGNIVYASIAESAKS-----PSCTGMWKTFDDEPTIIR 303
DB      181 RAFYSLGNIVYASIAESAKSPIYIDRYWHSHTATPCIKENYVASEIAKESPVIIDRYW 240

QY      326 -----PIYIDRYWHSHTA 337
DB      241 HSTATYPCCIKPVEEDILMMNLISFEERFILMANYLVASEIAKESINFPVIIDRYWHSHTA 300

QY      338 TYAATVSGSGLOHLPRAHHPVYOWPEDILKPLDILLTVSPERRIORLOGRMEXTREE 397
DB      301 TYAATVSGSGLOHLPRAHHPVYOWPEDILKPLDILLTVSPERRIORLOGRMEXTREE 360

QY      398 AELEANSV 405
DB      361 AEAIAATEV 368

RESULT 5
US-10-369-493-911
; Sequence 911, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 4
; SEQ ID NO 911
; LENGTH: 196
; TYPE: PRT
; ORGANISM: Archaeoglobus fulgidus
US-10-369-493-911
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Query Match      6.6%; Score 155; DB 15; Length 196;
Best Local Similarity 28.6%; Pred. No. 2.3e-05;
Matches 61; Conservative 37; Mismatches 75; Indels 40; Gaps 10;

Oy 254 VVALEGLDAGTKTIVTOSVADSL-----KAVLKSP-PSGIGWRKIFDEPTIIRAFY 307
      ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db 2 LIAVEIGDAGKGTITIAVIAELMEKGVKIVKLEPDSKRG--KKIKSSBERLSPEBEL 59
      ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||

Oy 308 SLGNVYVASEI-AKES-----AKSPYIVDRYHSTITYAIVTSGGLHLPAAHIFY 360
      ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db 60 EL--FLMDRELDARENTLPALOSQYAVVMDRYFYSNIAQOSARGIDARL-----IR 108
      ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||

Oy 361 QWPEDL-KPDLILLTVSPERLQRLQGRGMEKTRREAELEANSVPROKVMYSQWMEN 419
      ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db 109 ENMEKIKPKPDLTLLVBEPIALERKKGKSKSPFEKLD-----YURKVKCFLENAD 162
      ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||

Oy 420 PGCHVVDASPSRE-----KVLQTVLSLIONS 445
      |||||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db 163 ETVVVDASKPLSEVKEEVKRVIRISFNLKNKS 195
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RESULT 6
US-10-282-122A-67367
Sequence 67367, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zvekind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITPA.034A
CURRENT APPLICATION NUMBER: US/10/282.122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 67367
LENGTH: 243
TYPE: PRF
ORGANISM: Pasteurella multocida
US-10-282-122A-67367

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Best Local Similarity 27.6%; Pred. No. 0.00066;
Matches 59; Conservative 32; Mismatches 89; Indels 34; Gaps 10;
QY 250 GKFOVAIEGLDAGKTTTQSVADSLKA-----VLKSPSC-----IGQWRKIPDDE 298
DB 38 GKF--IVLEGIEGAGKTARSDISVALHAGIHIDVFTRREGGTPPLAKRLQILKHEE 95
QY 299 FTIR--AFYSGNYVASEIAKESAKSP-VVDRYWHSTATYATATEVSGGLQHLP 354
DB 96 PVTGKALMLMYARIQIVENVIKPALAQKRWVIGDRHDMSSQAY-----QGGGRQLD- 148
QY 355 AAHPVYOWPEDL---KPDLLILLTVSPEERLQROGKMEKTEEALEANSVFRQVE 411
DB 149 -QHLLHTLKQITIEFEPDLTVYLDIDPVGLSPAKRGALDRLEQNLD----FFHRT 203
QY 412 MSYGRM--ENPGCHVVDASPEREVLQTVLSLIQ 443
DB 204 QRYQELVHNPKAVTIDASQTMKVAEDVESAIR 237

RESULT 7

US-10-282-122A-53917
; Sequence 53917; Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zykkind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53917
; LENGTH: 205
; TYPE: PRT
; ORGANISM: *Comyobacterium diptheriae*
US-10-282-122A-53917

Query Match 5.6%; Score 131.5; DB 15; Length 205;
Best Local Similarity 22.4%; Pred. No. 0.003;
Matches 51; Conservative 39; Mismatches 69; Indels 69; Gaps 9;

QY 254 VVAIEGLDAGKTTTQSVADSLKAVLKSPPSCIGQWRKIPDEFTIRRAFS----- 308
DB 2 IIAIEGIDGAKNTLVSAIKERPDADVIGF-----RYEQS IHAKLAQRLYSGMDL 54
QY 309 -----LGNIVASEIAKESAKSPVYIDRYWHSTATYATATEVSG 347
DB 55 TDSAYMATLFLALDRYDAKAVIGRYVGTSKV-----VLLDRYVANSAAVSAAR----- 102
QY 348 GLQHLPPAHHPVYOWPEDL-----LKPDLLILLTVSPEERLQRO-----GRGMEK 393
DB 103 -----TRDANVQWQGEIEFEELGPVVDIHLHTSELAQRAQRRATDASKLDR 156
QY 394 TREAELEANSVFRQKEMSYGRMENPGCHV-VDASPS--REKVLQTV 438
DB 157 YERDAGLQERT-FOAYESIAQOKMNSPWLIVHPDESPDTVTQRIITQAL 203

RESULT 8

US-10-369-493-11256
; Sequence 11256; Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052) B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 11256
; LENGTH: 199
; TYPE: PRT
; ORGANISM: *Methanosaetia mazei*
US-10-369-493-11256

Query Match 5.4%; Score 128.5; DB 15; Length 199;
Best Local Similarity 26.0%; Pred. No. 0.0053;
Matches 58; Conservative 39; Mismatches 71; Indels 55; Gaps 12;

QY 249 GKFOVAIEGLDAGKTTTQSVADSLKAVLKSPPSCIGQWRKIPDEFT-----I 301
DB 1 RGG--LITLEGIDSGKSTVAEK-----LQKNPS--IAFPVFTREPTRGLTGDA 48
QY 302 IRRAFSIGN-----YIVASEIAKESAK-----SPVVDRYWHSTATYATATEVSG 347
DB 49 VEKAIQSDTDQFAELFTADHAHHLAKLIPALENGKIVISDRYSRYAYQ----- 101
QY 348 GLQHLPPAHHPVYOWPEDL-----LKPDLLILLTVSPEERLQROGKMEKTEEALEA 402
DB 102 GITLKTRENL-EMVVDLHMSWTIVVDLTLFPIRPEISIERGCKGGEQSKFKLE--- 157
QY 403 NSVFRQKEMSYGRM--ENPGCHV-DASPEREVLQTVLSLI 442
DB 158 ---FLOGVRAIFLKLADDPERFVVIDASRSPEYIEREVVKI 197

RESULT 9

US-10-437-963-196428
; Sequence 196428; Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David J.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei

APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ. ID NOS: 204966
SEQ. ID NO 196428
LENGTH: 253
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_92280C.1.pep
US-10-437-963-196428

Query Match 5.4%; Score 128.5; DB 16; Length 253;
Best Local Similarity 24.7%; Pred. No. 0.0074;
Matches 62; Conservative 39; Mismatches 81; Indels 69; Gaps 13;

QY 230 IPEARAVLDVDCPKQIQKQFOVAIEGLDGTGTTTQSVADSLKAVLSPSCIG 289
DB 29 LPQMRGVFRSVMESSGSGRGALIVLEGIDRSGKSGCCARLISFIOG-----KGCQA 82
QY 290 Q-WRKIFDDEPTIIRAFYSLGNYIVASEIAKES----- 322
DB 83 EGRN--FPDRGT-----SVGQ-MISAVLANSELDRTIHLFSANREKALMERKL 132
QY 323 -AKSPVIVDRYHMTATYATATEVSGGLQHLPPAHHPVYOW---PED-LKPDLLILLTV 377
DB 133 LDGTTILVDRYS-----GAFSAKGLD-----IMCKAPENGLIAPDLVYVLDV 179
QY 378 SEPERLORLOGRMEKTRBEALFANSVFRQKYMSTQRMENPCGHVVDASPSREKYLQT 437
DB 180 QPKAER-OGYGER-YEKIE-----FQKVGHEHSLRDSITKVDGSLPWEVVEEQ 231
QY 438 VUSLIONSFSR 448
DB 232 LKELAMSCIE 242

RESULT 10
US-10-369-493-21577
Sequence 21577, Application US/10369493
Publication No. US20030233675A1
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ. ID NOS: 47374
SEQ. ID NO 21577
LENGTH: 205
TYPE: PRT
ORGANISM: Pyrococcus abyssi
US-10-369-493-21577

Query Match 5.4%; Score 127.5; DB 15; Length 205;
Best Local Similarity 22.7%; Pred. No. 0.0068;
Matches 52; Conservative 43; Mismatches 71; Indels 63; Gaps 9;
QY 249 KGFQOVAIEGLDGTGTTTQSVADSLKAVLSPSCIGWRKIFDDEPT-----II 302
DB 2 RGVF--VLEGIDSGKTTQAKLLAEWFEE-----QGDVLLTKEPTTEFERLI 49

QY 303 R-----RAFSLGNYIVASEIAKESAK-----SPVIVDRYHMTATYAI 341
DB 50 RELVKNSTIDSGRISISTEAEALFPADRAHVKKVILPALEKGVICDRYLSLAYOW 109
QY 342 ATEVSGGLQHLPPAHHPVYOWPEDL-----LKPDLLILLTVSEPERLORLOGRMEKTR 397
DB 110 ARGIS-----LEWMQINSFARPLAILLDLPVESIRTKARG-----NM 151
QY 398 AELEANSVFRQKYMSTQRMEN--PCGHVVDASPSREKYLQTVLSLION 444
DB 152 SEFDKLELQKRYRMNYLKLAEWFKEMRYIVNAAVVEVEDIVALKH 200

RESULT 11
US-10-369-493-22800
Sequence 22800, Application US/10369493
Publication No. US20030233675A1
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ. ID NOS: 47374
SEQ. ID NO 22800
LENGTH: 259
TYPE: PRT
ORGANISM: Schizosaccharomyces pombe
NAME/KEY: unsure
LOCATION: (1)..(259)
OTHER INFORMATION: unsure at all xaa locations
US-10-369-493-22800

Query Match 5.4%; Score 127; DB 15; Length 259;
Best Local Similarity 22.3%; Pred. No. 0.01; 73; Indels 94; Gaps 13;
Matches 60; Conservative 42; Mismatches 73; Indels 94; Gaps 13;

QY 248 QKGFQOVAIEGLDGTGTTTQSVADSL-----KAVLLKSP----- 284
DB 3 KQNRGLIYIEGLDRSGKSTQCQLVDKLSQHEKALFPFGKSYFCPLADLVYPTTX 62
QY 285 --PSCIGWRKTYD-----DEPTIIRAFYSLGNYIVASEIAKESAKS--PVIVDRY 332
DB 63 DRTAIG--KKIDVDYKESVOLNDQ---VHLLFSANRETTQYIEQIWKGTCLIDRY 117
QY 333 WHSTATYATA-----TEVSGGLQHLPPAHHPVYOW--- 362
DB 118 AFSGLIAPSAKVLSPLGKFNTRYRLIYTLTYVTYINIKGLD-----MEWCKS 168
QY 363 -PEDLKPDLILLTVSEPERLORLOGRMEKTRBEALFANSVFRQKYMSTQRMEN--- 418
DB 169 PDRLGPRPDVIFLVNDP--RIATRGQYGEHEKYEIKEMQ-----EKVLKNQRLQKER 220
QY 419 -NPGCHV--DASPSREKYLQTVLSLION 444
DB 221 REBGLFEITLDASSSLEDVHSQIVDLVSN 249

RESULT 12
US-10-425-114-64336
Sequence 64336, Application US/10425114
Publication No. US20040034888A1
GENERAL INFORMATION:
APPLICANT: Liu, Jingdong

```

; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 64336
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3632-055-C3_FLI.pep
US-10-425-114-64336
```

```
Query Match          5.4%; Score 126.5; DB 15; Length 263;
Best Local Similarity 25.5%; Pred. No. 0.012;
Matches 60; Conservative 34; Mismatches 70; Indels 71; Gaps 13;
```

```
QY 250 GKQVVAIEGIDATGKTTTQSVADSIKAVILKSPSCIGQWRKTFDDEPTIIRAFVSL 309
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 59 GRGALVVLGELDRSGKTSQCARLISFLKKGYNAE-----GWR--FPDRAT-----SV 104
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 310 GNYIVASEIKES-----AKSPVYDRWHSATATYATA 342
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 105 GQ-MISSYLANDSGLDRTTHLFSANRWEKRLMESKILSGTLLVDRYSYS-----GVA 159
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 343 TEVSGSLQHLPPAHHPYQW---PED-LIKPDLILTVSPERLQRLQSGMKTREEA 398
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 160 FSAKGLD-----IEWCKAPENGLIAPDLVTVDPPEKAER-GGYGGER-YEKI 208
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 399 ELEANSYEROKVEMSYQRMENPGCHVDA-----SPSEKVLQTVLSLIONSFSP 449
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 209 E-----FQKKVAHEHSLRDSYTWKVVDFLPMEYWEKRLDRLATSCIDQCQNP 257
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
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RESULT 13
; US-09-815-242-11027
; Sequence 11027, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Habelbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: Prokaryotes
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
```

```

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11027
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-815-242-11027
```

```
Query Match          5.3%; Score 126; DB 9; Length 210;
Best Local Similarity 26.1%; Pred. No. 0.0095;
Matches 57; Conservative 32; Mismatches 91; Indels 38; Gaps 10;
```

```
QY 249 KGKEVVAIEGIDATGKTTTQSVADSL-----KAVILKSPSC-----IGQWRKITDD 297
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 2 KGKF--TVIEGLGAGKSAHQSVVRVHLEIGIDPVTFREGTPTLAEKRLHILKHETE 59
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 298 EPTIIRAFYSIGNYIVASEIKESAKSP-----VIQRYWHSATATYATAIEVSGSLQH 351
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 60 EPTDKAELML--YAARIQVENYIKPALMGKKVVDGRHDMSQAY-----GGGRQ 111
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 352 LPPAHHPYQWPEDL---KPDILILTVSPERLQRLQSGMKTREAELEANSVPRQ 408
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 112 LDP--HFMLTLKETVLGNFEPDLTYLIDPSVGLARARGELDRIRQMDL----FFH 165
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 409 KYVMSYQRM--ENPGCHVVDASPSREKVLQTVLSLION 444
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 166 KTRARYLELVKDPKAVVAVINAEQSTELVQADIESAVKN 203
   | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
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```

RESULT 14
; US-10-282-122A-58176
; Sequence 58176, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Habelbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent version 3.1
; SEQ ID NO 58176
```

```

; LENGTH: 210
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-10-282-122A-58176

```

Query Match	5.3%	Score 126;	DB 15;	Length 210;
Best Local Similarity	26.1%;	Pred. No. 0.0095;		
Matches 57;	Conservative 32;	Mismatches 91;	Indels 38;	Gaps 10

```

QY      KGKFOVAALIGDATTGTYTQVAAASL-----KAVILKSPSC-----IGOMKIFDD 297
Db      2 KGKF--LVIEGLEGACKSANGSVAVVHLELGIDVVFPRGCGPYPLAKRLHILKHETE 59

QY      EPTTIRRAFYSLNGYTVASEIAKESAKSP-----VYDVRMYHSTATYATAITEVSGLOH 351
Db      60 EPVTDKAEILML--YAARIQVENVIKPALMOGKVVGBRHHMSSQAV-----QGGRQ 111

QY      352 LPRPHNFVYVMPEDLL---KPDILILITVSPEERLORLOGRMKTRBEALFANSVFRQ 406
Db      112 LDP--HMLTLTKETVIGNEPBDLTLYLIDIDPSVGLARAGRGELDRIGEMD-----FFH 165

QY      409 KVENSVQRM--ENPGCHVVDASPREKVLQTVLSLION 444
Db      166 RTRARYELVYKDNPKAVVIAAGSIELVQADIESAVKN 203

```

```

RESULT 15
US-10-369-493-1320
: Sequence 1320, Application US/10369493
: Publication No. US20030233675A1
: GENERAL INFORMATION:
: APPLICANT: Cao, Yongwei
: APPLICANT: Hinkle, Gregory J.
: APPLICANT: Slater, Steven C.
: APPLICANT: Goldman, Barry S.
: APPLICANT: Chen, Xianfeng
: TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
: TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
: RILE REFERENCE: 38-10152052/B
: CURRENT APPLICATION NUMBER: US/10/369,493
: CURRENT FILING DATE: 2003-02-28
: PRIOR APPLICATION NUMBER: US 60/360,039
: PRIOR FILING DATE: 2002-02-21
: NUMBER OF SEQ ID NOS: 47374
: SEQ ID NO 1320
: LENGTH: 205
: TYPE: PRT
: ORGANISM: Pyrococcus horikoshii
US-10-369-493-1320

```

Query Match	5.3%;	Score 125.5;	DB 15;	Length 205;
Best Local Similarity	23.3%;	Pred. No. 0.01;		
Matches 53;	Conservative 44;	Mismatches 71;	Indels 59;	Gaps 10;

```

Qy      249 KGRQVAAEGLATGTTTYSVAD-----SLKAVILKSP--PGSIGM--KRIFDDEPTI 300
      2  RGTF--TVTEGIDGSGGTTQAKLPAEMEDKGYEVLTLTEPDSLSGLKIRRIILLESVI 59
Db
Qy      302 I--RAAFYSLGNYIVASEIAESAK-----SPITYDVRVYSHSPATYAIATEVSGLOH 351
      60 DGRSLTSEABALLPAPDRAEHVKKILPLALSBGKVIICDRYYTSL----- 105
Db
Qy      352 LPPAHHPVQWPEDL-----LKPDLILLITVSPERRLOLQGRMEKTRBEAE 399
      106 -----AYOMARGELDLNMLIQVNSFPAPPDALITLDPVKESTRIKLRG-----TLTE 153
Db
Qy      400 LEANSVPRCKVEMSYQRMEN--PGCHVNDVDSPREKVILOTVSLQON 444
      154 PDKIVELQKRVKRNIVYKLKLAEMPEMKRIVALTSIEDHSDIVALVXH 200
Db

```

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GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: February 27, 2005, 17:36:15, Search time 43 Seconds
(without alignments)
779,475 Million cell updates/sec

Title: US-10-681-223-2

Perfect score: 2362
Sequence: 1 MAFARLLRGPLSGPLGR.....SREKVLQTVLSLQNSRSEP 449

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Issued Patents AA:*

- 1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
- 2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
- 3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
- 4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
- 5: /cgn2_6/ptodata/1/1aa/PCBUS.COMB.pep:*
- 6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2362	100.0	449	US-09-984-880-2	Sequence 2, Appl1
2	2362	100.0	449	US-10-277-032-2	Sequence 2, Appl1
3	795.5	33.7	508	US-09-984-880-4	Sequence 4, Appl1
4	795.5	33.7	508	US-10-277-032-4	Sequence 4, Appl1
5	129.5	5.5	956	US-09-252-991A-28002	Sequence 28002, A
6	118.5	5.0	216	US-09-632-553-3	Sequence 3, Appl1
7	118	5.0	681	US-09-252-991A-25690	Sequence 25690, A
8	117.5	5.0	213	US-09-632-553-2	Sequence 2, Appl1
9	117.5	5.0	219	US-09-489-039A-7540	Sequence 7540, Ap
10	115	4.9	925	US-09-902-540-15299	Sequence 15299, A
11	110.5	4.7	1646	US-09-902-540-15011	Sequence 15011, A
12	109	4.6	218	US-09-107-9433-3820	Sequence 3820, Ap
13	109	4.6	955	US-09-252-991A-24254	Sequence 24254, A
14	108.5	4.6	615	US-09-252-991A-25642	Sequence 25642, A
15	107	4.5	212	US-09-259-109-2	Sequence 2, Appl1
16	107	4.5	212	US-09-583-110-5141	Sequence 5141, Ap
17	107	4.5	2294	US-09-252-991A-17231	Sequence 17231, A
18	106	4.5	1427	US-09-252-991A-20577	Sequence 20577, A
19	105.5	4.5	204	US-09-134-001C-3311	Sequence 3311, Ap
20	105.5	4.5	388	US-09-252-991A-21572	Sequence 21572, A
21	105.5	4.5	564	US-09-252-991A-25356	Sequence 25356, A
22	105	4.4	444	US-09-252-991A-27505	Sequence 27505, A
23	104.5	4.4	1665	US-09-858-664A-2	Sequence 2, Appl1
24	104.5	4.4	1665	US-10-274-978-2	Sequence 2, Appl1
25	104.5	4.4	1665	US-10-697-263-2	Sequence 2, Appl1
26	104	4.4	494	US-09-252-991A-23320	Sequence 23320, A
27	104	4.4	1067	US-09-252-991A-30526	Sequence 30526, A

28	104	4.4	1544	3	US-09-413-814-46	Sequence 46, Appl1
29	103.5	4.4	582	4	US-09-252-991A-25366	Sequence 25366, A
30	103.5	4.4	751	4	US-10-020-079-8	Sequence 8, Appl1
31	103.5	4.4	764	4	US-10-020-079-6	Sequence 6, Appl1
32	103.5	4.4	864	4	US-10-020-079-4	Sequence 4, Appl1
33	103.5	4.4	870	4	US-10-020-079-2	Sequence 2, Appl1
34	102.5	4.3	1190	4	US-09-902-540-12293	Sequence 12293, A
35	102	4.3	226	4	US-09-949-016-8122	Sequence 8122, Ap
36	101.5	4.3	414	4	US-09-252-991A-30034	Sequence 30034, A
37	101.5	4.3	1343	4	US-09-171-991-2	Sequence 2, Appl1
38	101	4.3	337	4	US-09-252-991A-31851	Sequence 31851, A
39	100.5	4.3	305	4	US-09-252-991A-20357	Sequence 20357, A
40	100.5	4.3	422	4	US-09-252-991A-30625	Sequence 30625, A
41	100	4.2	280	4	US-09-252-991A-32145	Sequence 32145, A
42	100	4.2	605	4	US-09-252-991A-25512	Sequence 25512, A
43	99.5	4.2	227	4	US-09-543-681A-7769	Sequence 7769, Ap
44	99.5	4.2	435	4	US-09-252-991A-24702	Sequence 24702, A
45	99.5	4.2	507	4	US-09-252-991A-17308	Sequence 17308, A

ALIGNMENTS

```
RESULT 1
US-09-984-880-2
; Sequence 2, Application US/09984880
; Patent No. 6489133
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OR INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: C1001305
; CURRENT APPLICATION NUMBER: US/09/984,880
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 449
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-984-880-2

Query Match      100.0%; Score 2362; DB 4; Length 449;
Best Local Similarity 100.0%; Pred. No. 2.5e-232;
Matches 449; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAFARLLRGPLSGPLGRGVCAGAMAPPCRFVLSLPDCTLAHFAFGADAPDADP 60
   |||||
DB 1 MAFARLLRGPLSGPLGRGVCAGAMAPPCRFVLSLPDCTLAHFAFGADAPDADP 60
   |||||

QY 61 RLAAALGPPERSYSTLCVPTPDAGCGARVBAARLHORLHQLRRGFQRCQLRLCYCP 120
   |||||
DB 61 RLAAALGPPERSYSTLCVPTPDAGCGARVBAARLHORLHQLRRGFQRCQLRLCYCP 120
   |||||

QY 121 GCGAGAGCQGFLLRDPDDPTROALLIELGAQCEAPRPHLGFEPADPRQQLNORLMEVQ 180
   |||||
DB 121 GCGAGAGCQGFLLRDPDDPTROALLIELGAQCEAPRPHLGFEPADPRQQLNORLMEVQ 180
   |||||

QY 181 DGRRLQVGCQVVPVEPPLPAPVVDLPSSVFPDEBAARAVLVECTSFPEBAARVLDLV 240
   |||||
DB 181 DGRRLQVGCQVVPVEPPLPAPVVDLPSSVFPDEBAARAVLVECTSFPEBAARVLDLV 240
   |||||

QY 241 DQCPKQIQKGFQVVAIEGLDATGKTTVTQSVASLSKAVLLKSPSCIGQWRKIFDDEPT 300
   |||||
DB 241 DQCPKQIQKGFQVVAIEGLDATGKTTVTQSVASLSKAVLLKSPSCIGQWRKIFDDEPT 300
   |||||

QY 301 IIRRAPIISLGNIVVASEIAESAKSPYIVDRYVHSTRTVIAIAEVGGGLQHLPPAHHPVY 360
   |||||
DB 301 IIRRAPIISLGNIVVASEIAESAKSPYIVDRYVHSTRTVIAIAEVGGGLQHLPPAHHPVY 360
   |||||

QY 361 QMPEDLLKPLDILLTLTVSPERLQRLQGRMEKTRAEAELEANSVFRQKEMSYQRMENP 420
   |||||
```

```
Db 361 QWPEDLKPDLLILLTVSPERLQRLQGRGMEKTRERAELEANSVFRQKVMYSQRMENP 420
QY 421 GCHVDASPSREKVLQTVLSLIONSFSRP 449
Db 421 GCHVDASPSREKVLQTVLSLIONSFSRP 449

RESULT 2
US-10-277-032-2
; Sequence 2, Application US/10277032
; Patent No. 6664087
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: C1001305 DIV
; CURRENT APPLICATION NUMBER: US/10/277,032
; CURRENT FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 449
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-277-032-2

Query Match 100.0%; Score 2362; DB 4; Length 449;
Best Local Similarity 100.0%; Pred. No. 2.5e-232;
Matches 449; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAFARRLRGPPLSGPLGRGVCAGAMAPRCFVLEPDCTLAHPLAGADADADADPP 60
Db 1 MAFARRLRGPPLSGPLGRGVCAGAMAPRCFVLEPDCTLAHPLAGADADADADPP 60
QY 61 FLAALLGPERSYSLCVPTPDAGCGARVAAHLQRLHQLRRGFQRCQLRLCYCP 120
Db 61 FLAALLGPERSYSLCVPTPDAGCGARVAAHLQRLHQLRRGFQRCQLRLCYCP 120
QY 121 GSGAGAGQGGFLRDLDDPDTQALIELLIGACQEARPLGFEADPRGQMLQRLMEVQ 180
Db 121 GSGAGAGQGGFLRDLDDPDTQALIELLIGACQEARPLGFEADPRGQMLQRLMEVQ 180
QY 181 DGRRLQVCAQVVPVPEPLHPVVDLPSSVFPDEBARAVLEECTSFIPBARAVLDLV 240
Db 181 DGRRLQVCAQVVPVPEPLHPVVDLPSSVFPDEBARAVLEECTSFIPBARAVLDLV 240
QY 241 DQCPKQIQKGFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPSCIQGWRKIFDDEPT 300
Db 241 DQCPKQIQKGFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPSCIQGWRKIFDDEPT 300
QY 301 IIRAFYSIGNYIVASEIAKESAKSPYIVDRVWHTATATAIANEVSGGIQHLPRAHHPY 360
Db 301 IIRAFYSIGNYIVASEIAKESAKSPYIVDRVWHTATATAIANEVSGGIQHLPRAHHPY 360
QY 361 QWPEDLKPDLLILLTVSPERLQRLQGRGMEKTRERAELEANSVFRQKVMYSQRMENP 420
Db 361 QWPEDLKPDLLILLTVSPERLQRLQGRGMEKTRERAELEANSVFRQKVMYSQRMENP 420
QY 421 GCHVDASPSREKVLQTVLSLIONSFSRP 449
Db 421 GCHVDASPSREKVLQTVLSLIONSFSRP 449

RESULT 3
US-09-984-880-4
; Sequence 4, Application US/09984880
; Patent No. 6489153
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
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; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: C1001305
; CURRENT APPLICATION NUMBER: US/09/984,880
; CURRENT FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 508
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-984-880-4

Query Match 33.7%; Score 795.5; DB 4; Length 508;
Best Local Similarity 48.1%; Pred. No. 2.9e-72;
Matches 177; Conservative 0; Mismatches 4; Indels 187; Gaps 2;

QY 225 ECTSFIPBARAVLDVDDCPKQIQKGFQVVAIEGLDATGKTTTQCTSFIPBARAVLDVDDC 284
Db 1 ECTSFIPBARAVLDVDDCPKQIQKGFQVVAIEGLDATGKTTTQSVADSLKAVLLKSP 60
QY 285 -----
Db 61 CTSFIPBARAVLDVDDCPKQIQKGFQVVAIEGLDATGKTTTQCTSFIPBARAVLDVDDC 120
QY 285 -----
Db 121 PREVOGKGFQVVAIEGLDATGKTTTQHFKLSLSRHSRPSICIGWRKIFDDEPTIIR 180
QY 304 RAFYSLGNIVYASEIAKESAKS-----
Db 181 RAFYSLGNIVYASEIAKESAKSPYIVDRVWHTATATPCIKENYVASEIAKESPYIVDRVW 240
QY 326 -----
Db 241 HSTATYPCIKPEEDLLMNLSPSEPFILMANYLVASIAKESSTNPFVIVDRVWHTA 300
QY 338 TYAITEVSGGIQHLPRAHHPVQWPEDLKPDLLILLTVSPERLQRLQGRGMEKTRER 397
Db 301 TYAITEVSGGIQHLPRAHHPVQWPEDLKPDLLILLTVSPERLQRLQGRGMEKTRER 360
QY 398 AELEANSV 405
Db 361 AELEATEV 368

RESULT 4
US-10-277-032-4
; Sequence 4, Application US/10277032
; Patent No. 6664087
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: C1001305 DIV
; CURRENT APPLICATION NUMBER: US/10/277,032
; CURRENT FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 508
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-277-032-4

Query Match 33.7%; Score 795.5; DB 4; Length 508;
Best Local Similarity 48.1%; Pred. No. 2.9e-72;
Matches 177; Conservative 0; Mismatches 4; Indels 187; Gaps 2;

QY 225 ECTSFIPBARAVLDVDDCPKQIQKGFQVVAIEGLDATGKTTTQSVADSLKAVLLKSP 284
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CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 25690
LENGTH: 681
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25690

Query Match 5.0%; Score 118; DB 4; Length 681;
Best Local Similarity 23.2%; Pred. No. 0.0072;
Matches 125; Conservative 49; Mismatches 189; Indels 176; Gaps 28;

QY 2 APARRLLGPIGSLGRRGV-----CAGAAAPPCRFVLEY-----PDCTLAHFGAD 50
DB 97 AGARRAGPGSLAGP-AGRRGLRPPGAGALARAFAVARQVGPARRRPGHRLAQ----RP 151
QY 51 ACPGADADPRLLALLGPPERSYSLCVPTVPDAGC--GARVRAARLHQRLHQLRGPQ 108
DB 152 QPGRRRRPGDLEVLGRPGKPFPRRAGQGPDLCECRSAENHAALGGERLAASGRP--- 208
QY 109 RCOLLRLLCYCPGGAGAGQGFLLRDPDPTRQALLLELLGACCGAPRPHLGEPADP 168
DB 209 -----APGPGGGRPRG-----RLRLPGLLGVAHDAHALLPAAFER 246
QY 169 R-----GQLMRLMEVQDGRRLQVCAOVVPVEPRLHVV--PDLSSVVEPDEBAAR 220
DB 247 RLHGVSAGPATAVCALQPGKR-----GADVPP-----PVDEPGRQDPAVHAAAGAR 225
QY 221 AVIECTSFIEPARAVLDVDCCKQIQKGFQVVAIEGLDAGKTTVTQSVADSLKAVI 280
DB 296 AAT-----AVKDAV--AGHRQHRGYPWT--LPLSGN-----ALSLLEVL 331
QY 281 LKSPS--C-----ICQWKIFPDE--PTIRAFYSIGNYIVASEIAXE--SA 323
DB 332 EPIDPGQPCGPRSLRYDPDYRLRELRREDDSLPTGWCQAEARAAVAEQLASDILOR 391
QY 324 KSPVIVRVYHSTRATYAIATEVSGGLQ-----HLPRHHFVYQ-----W--DE 364
DB 392 KSDMLAAWLGEM--LQRGGLGGLRALVLLAEICERYPEEVHQAQDDQSWVPPI 449
QY 365 D-----LKKEDLIL-----LTVSPERLQRLQKGMKTEEBELEANSYPRK 409
DB 450 DWLLRYVELLHRLRLPMGGAPAEITIVAMQRLQQAASGDSKAKALEAAQLQOKK 509
QY 410 V-----EMSYQRMEN-----PGCHVVDASPSREKVLQ 436
DB 510 LDEALRAEPLVQWRQKASILACQQLORLEQWCDRCGLGLAPSC-----QPLREVIQA 563

RESULT 8
US-09-632-553-2
Sequence 2, Application US/09632553
Patent No. 6689595
GENERAL INFORMATION:
APPLICANT: Pharmacia & Upjohn
TITLE OF INVENTION: Crystallization and Structure Determination of
FILE REFERENCE: 6245.NCP
CURRENT APPLICATION NUMBER: US/09/632,553
CURRENT FILING DATE: 2000-08-04
PRIOR APPLICATION NUMBER: 60/147,117
PRIOR FILING DATE: 1999-08-04
NUMBER OF SEQ ID NOS: 3
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 213
TYPE: PRT
ORGANISM: Escherichia coli

US-09-632-553-2

Query Match 5.0%; Score 117.5; DB 4; Length 213;
Best Local Similarity 23.6%; Pred. No. 0.0013;
Matches 52; Conservative 42; Mismatches 85; Indels 41; Gaps 10;

QY 255 VAIEGLDAGTKTTVQSVADSLK-----AVLLKSP-----SCIQWRK 293
DB 6 IVIELEGAGKTTARNAVVEVTEIQGIRHMVFTREPGGTQAEKRSVLVDIKSVGD--E 63
QY 294 IPDDEFTIRRAFYSLGNYIVASEIAXESASP-VIVDRYHSTATYAIATEVSGGLQ 352
DB 64 VITDKAEVL--MFAARVOLVETVIKPLANGTWIGRHDLSQAY-----QCGGRGI 115
QY 353 PRAHHPVYQWPRDL---KPDILLLTVSPERLQRLQKRG-MEKTREAELEANSVPRQ 408
DB 116 D--QHMLATLRRAVAGDRPRDLTLVDVTPVEGLKRAARGELDIQESDFFNRTIRAR 173
QY 409 KYEMSYQRMENPGCHVVDASPSREKVLQTVLSLQNSFSE 448
DB 174 VLELAAQ--DKSIHTIDATQPLEAVMDAIRTVTHWYKE 210

RESULT 9

US-09-489-039A-7540
Sequence 7540, Application US/09489039A
Patent No. 6610836

GENERAL INFORMATION:

APPLICANT: Gary Breton et. al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

FILE REFERENCE: 2709.2004001

CURRENT APPLICATION NUMBER: US/09/489,039A

CURRENT FILING DATE: 2000-01-27

PRIOR APPLICATION NUMBER: US 60/117,747

PRIOR FILING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 14342

SEQ ID NO 7540

LENGTH: 219

TYPE: PRT

ORGANISM: Klebsiella pneumoniae

US-09-489-039A-7540

Query Match 5.0%; Score 117.5; DB 4; Length 219;
Best Local Similarity 22.1%; Pred. No. 0.0014;
Matches 52; Conservative 41; Mismatches 85; Indels 57; Gaps 8;

QY 248 QKGFQVVAIEGLDAGTKTTVQSVADSLKA-----YLKSPSC----- 288
DB 5 KQKMSNYIVIEGLEGAGKTTARQVLVETLOSAGIHDWVFTREPLGTTLAEKRSVLVDIQ 64
QY 289 GQMKRIFDDEFTIRRAFYSLGNYIVASEIAXESASP-VIVDRYHSTATY----- 339
DB 65 STGDVINDKAEVL--MFAARVOLVETVIKPLARGQWIGRHDLSQAYGGGGRGID 122
QY 340 -----AIAIEVSGGLQHLPRHHHPVYQWPRDLKPDILLLTVSPERLQRLQKRG-MEK 393
DB 123 RYMLATIRDAVLGD-----FRPLTLLVDVTPVEGLQRAARGELOR 164
QY 394 TREAELEANSVPRQKYEMSYQRMENPGCHVVDASPSREKVLQTVLSLQNSFSE 448
DB 165 IEQSMNPFNRTARVYLELA--ADPSIRTVDATQPLDAVVDADITATTAQMAAE 216

RESULT 10

US-09-902-540-15299
Sequence 15299, Application US/09902540
Patent No. 6833447

GENERAL INFORMATION:

APPLICANT: Goldman, Barry S.

APPLICANT: Hinkle, Gregory J.

APPLICANT: Slater, Steven C.

APPLICANT: Wiegand, Roger C.

TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 15299
LENGTH: 925
ORGANISM: Myxococcus xanthus
US-09-902-540-15299

Query Match
Best Local Similarity 24.2%; Score 115; DB 4; Length 925;
Matches 137; Conservative 50; Mismatches 208; Indels 172; Gaps 34;

4.9%
1 MAPARLLRGP-----LSGRLGRGVCAGAMAP-CRFVLELPD---CT-LAH-FA 46
45 IAGRLVLRPGCGGDDGYLAG-LIAGQVSIHFGTLRLVLDAPLEBCTSLRIVFC 103
47 LGADAPD-----ADAPDRLAALLGPPERSYSLCVPTPDAGC-----G 86
104 GGEVVPVSLGRLAARV-ARLHQYGPTE-----ATIDASCMDCVGSTRSYPMG 154
87 ARVPAARLHQRLHQLRGPRQQLRLCYCGGAGAGAGGFLAR-----DP 136
155 APVANTLHVLDARGLHAAGEVGLL-----IGV--GLARGLRPPDLTAAPVDP 206
137 L-DDPDR-----QALLLELACQ-----BAPRHLGEFADPRGQLMOR--- 175
207 FSEPRGARLVRTGDLVARMDDGTQFLGRDHQYKAVGVELGEIALLGHGLREAV 266
176 ---LMEVQDGRRLQVCAQVVP---VDEPP-----LHPVVDLPSSVVF----- 213
267 VVVRGEGEDERHL---VAYVVPANAVEPLETLARAFLESLRDPYVPAVFIPLDGLPL 323
214 -PREBARAVLEBCTSFIPBARAVLDVDCPKIQK-----GKQVVAIEG-----L 260
324 TPGRKDRGALPEBSEF---NRLVPSGHEAPRATLERLSRLMGEVLRVALPGRHAFTL 380
261 DATGKTVTQSVADSLKAVLLKSPSCIGWRKIFDEPTIIRAFSLGNYIVASIAK 320
381 ELGGDSILAVRIARLEAGRCRPS-----QLF-SHTTAEIA-----GGLRALDOLP 429
321 ESASKEVTVDRYHSTVTF---YATATEVSGLOH--LPPAHHPYQMPEDILKPDILLL 375
430 DGGKASAVPEDEWPSAASEPYPLTPMQEGMLFTLLAPGSRVYHQLEFELRGLV--- 486
376 TVGPE---ERL-----QRLQGRMEKTR--EEARL-----EANSVPRQK 409
487 ---PELIERAMCEVGAHFGRLMFPQWEGSAPRQVARELPRIEMWMSQESLAEER 543
410 VEMSYQRMENPGCHVVDASPSREKYLQ 436
544 RERFLAEDRARGFALTDAFPVRLSVQ 570

RESULT 11
US-09-902-540-15011
Sequence 15011, Application US/09902540
Patent No. 6833447
GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10

NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 15011
LENGTH: 1646
TYPE: PR1
ORGANISM: Myxococcus xanthus
US-09-902-540-15011

Query Match
Best Local Similarity 23.5%; Score 110.5; DB 4; Length 1646;
Matches 120; Conservative 42; Mismatches 171; Indels 177; Gaps 26;

4.7%
16 ILGRGVGACAMAPCFVLELPDCTLAHPALGADAPGADADPRLAALLGPPERSYSTL 75
375 LIAHQ-LDAALALGQR-ALVIGGETISAEAL---EWMRSHAQTRILINNYGFEITYVGC 429
76 CV-PTVPD-----AGGARVRAARLHQRLHQLRGPRFQCOLRLCYCGGAG--- 125
430 CVHEATPDDARTGSVAIGRIANTRLVLDEN-----LRLV---PVGHGELY 474
126 ---GAQGGFLR-----DPLDD--PDR-----QALLLELACQD--- 155
475 IGGDGVARGYLDRBELTAERFVDPFGDVGARLVRTGDRVRPPDGVLDPLGRDRQVK 534
156 --APRHLGEFADPRGQLMQ-----RLMEVQDGRRLQVCAQVVPDEPRLAPV 203
535 VRGRIELGEIE---GVLQAPGVREVVVAREDEIGSRLL---VAYVVPNEGADVER 587
204 VPDLPSVVPDEBARAVLEBCTSFIPBARAVLDVDCPKIQKGF-----QV 255
588 VL-----RLARAKLPE--HLVPSVVPDLALPLSP---NGKVRRRALPADEAI 631
256 AIEGLDA-TGKTVTQSVADSLKAVLLKSPSCIGWRKIFDEPTIIRAFSL-GNYI 313
632 ARSHDGYVAPRTRADLLCSLAELRL-----ERVGINRFPDLGDSI 677
314 VASEIAKESAKSPVIV---DRYHSTATYATATEVSG----- 348
678 LGVQLIGRANRAGLHLTPKQFLDHQTFDELAASGCGSIARQGLVNGVPLPIQGF 737
349 -LQHLPPAHN-----PYQMPEDILKPDILLLTVSPEERIQ----- 384
738 FRQPPAFHFNQAVLLETHASFRSDILKPALALALAHDLRLRFRETEGHWLQRCAL 797
385 -----RLQGRMEKTRREAELEANSV 405
798 ERAPVSTFNLGSLSPHORLEATPASTL 827

RESULT 12
US-09-107-433-3820
Sequence 3820, Application US/09107433
Patent No. 6800744
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE
THERAPEUTICS
NUMBER OF SEQUENCES: 5206
CORRESPONDENCE ADDRESS:
ADDRESSER: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: <Unknown>
OPERATING SYSTEM: <Unknown>
SOFTWARE: <Unknown>
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,433
FILING DATE: 30-Jun-1998


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Db      550 RHRP-----ARAEALALGHPICNLRKKAALALGELADPA 584
QY      410 VEMSYQRMENPGCHVDASPSREKVIQTIVSLIQ 443
Db      585 SAQALRYAEG-----DGDEPVRAVRIALALQLR 612
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RESULT 15

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US-09-259-109-2
; Sequence 2, Application US/09259109
; Patent No. 6270762
; GENERAL INFORMATION:
; APPLICANT: Burnham, Martin K. R.
; APPLICANT: Zalacain, Magdalena
; APPLICANT: Biswas, Sanjoy
; APPLICANT: Chalker, Alison F.
; APPLICANT: Ingraham, Karen A.
; APPLICANT: Traini, Christopher M.
; APPLICANT: Warren, Patrick V.
; TITLE OF INVENTION: tdk
; FILE REFERENCE: GM10201
; CURRENT APPLICATION NUMBER: US/09/259,109
; CURRENT FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-259-109-2
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Query Match      4.5%; Score 107; DB 3; Length 212;
Best Local Similarity 24.5%; Pred. No. 0.015;
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Matches 52; Conservative 34; Mismatches 90; Indels 36; Gaps 8;
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QY      254 VVAIEGLDATGKTKTVTQSVADSLK---AVLTKSPSCIGQWRKIIP-----DEP 299
Db      6 LVSLGEGPEGAGKTSVLEALPILIEKGVAVLTTRPGCVLIGEKIREVILDPSTHMDAK 65
QY      300 TIIRAFYSLGNYIVASEIAKESAKSPVIYDRVYWHSTATY-----AATEVSGGLQHLPP 354
Db      66 TELLYIASRRQHLVEKVLPALEAGKLVIMDRFIDSSVAYQGFQGLDIEALDWLN----- 121
QY      355 AHHPIVQWPPDLKPDILILLTVSPERLQPLQGRGMKTRAEALEANSV-FRQKVEMS 413
Db      122 -----QFATDGLKPDLLTYFDIEVEEGLARI---AANSDEVRVRLDLEGLDLHKVROG 172
QY      414 Y-QRMENPGCHV--DASPSREKVIQTIVSLI 442
Db      173 YLSLDKESGNRIYKIDASLPLEQVETTKAVL 204
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Search completed: February 27, 2005, 17:53:15
Job time : 46 secs
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OM nucleic - nucleic search, using sw model

Run on: February 28, 2005, 19:01:05 ; Search time 1422 Seconds
(without alignments)
10713.331 Million cell updates/sec

Title: US-10-681-223-1

Perfect score: 2571
Sequence: 1 CGGGGCGGAGGGGCGGCGTCG.....AGGAGGGGCGCTTGCACCC 2571

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 5394803 seqs, 2962729879 residues

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Minimum DB seq length: 0
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Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:
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2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
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4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
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21: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
22: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2571	100.0	2571	14	US-10-277-032-1
2	2571	100.0	2571	17	US-10-681-223-1
3	2276	88.5	2856	16	US-10-305-810-6
4	2125.2	82.7	2645	13	US-10-044-090-720
5	1694.2	65.9	2566	18	US-10-370-715B-645
6	1579.6	61.4	2199	18	US-10-357-930-20954
7	1579.6	61.4	2199	18	US-10-357-930-22065
8	1579.6	61.4	2199	18	US-10-357-930-26800
9	1579.6	61.4	2199	18	US-10-357-930-27924
10	1130.4	44.0	20966	14	US-10-277-032-3
11	1130.4	44.0	20966	17	US-10-681-223-3

12	1035.4	40.3	1579	17	US-10-264-237-104	Sequence 104, App
13	411.4	16.0	454	18	US-10-357-930-33519	Sequence 33519, A
14	411.4	16.0	454	18	US-10-357-930-40840	Sequence 40840, A
15	411.4	16.0	454	18	US-10-357-930-42442	Sequence 42442, A
16	411.2	16.0	418	18	US-10-357-930-12348	Sequence 12348, A
17	399	15.5	417	18	US-10-357-930-10685	Sequence 10685, A
18	390.8	15.2	454	18	US-10-357-930-3179	Sequence 3179, A
19	382.8	14.9	432	18	US-10-357-930-31877	Sequence 31877, A
20	366	14.2	1163	18	US-10-723-860-5376	Sequence 5376, Ap
21	303.8	11.8	507	9	US-09-867-701-2642	Sequence 2642, Ap
22	239.2	9.3	293	18	US-10-357-930-1516	Sequence 1516, Ap
23	219.4	8.5	497	9	US-09-783-590-5564	Sequence 5564, Ap
24	149.8	5.8	603	17	US-10-240-442-827	Sequence 827, App
25	126.2	4.9	390	9	US-09-783-590-11496	Sequence 11496, A
26	79.8	3.1	2118	15	US-10-156-761-7362	Sequence 7362, Ap
27	79.8	3.1	9025608	15	US-10-156-761-1	Sequence 1, Appli
28	77.6	3.0	972	18	US-10-425-115-17653	Sequence 17653, A
29	76.2	3.0	77294	19	US-10-729-802-1	Sequence 1, Appli
30	76	3.0	1413	10	US-09-953-348-51	Sequence 51, Appl
31	76	3.0	1413	15	US-10-267-255-51	Sequence 51, Appl
32	76	3.0	53500	10	US-09-953-348-76	Sequence 76, Appl
33	76	3.0	53500	15	US-10-267-255-76	Sequence 76, Appl
34	75.8	2.9	667	18	US-10-767-701-4633	Sequence 4633, Ap
35	75.8	2.9	4667	18	US-10-723-860-5759	Sequence 5759, Ap
36	75	2.9	1092	18	US-10-767-701-9739	Sequence 9739, Ap
37	74.4	2.9	723	18	US-10-425-115-164510	Sequence 164510,
38	74	2.9	1860	15	US-10-156-761-1558	Sequence 1558, Ap
39	74	2.9	9025608	15	US-10-156-761-1	Sequence 1, Appli
40	73	2.8	1437	15	US-10-156-761-5988	Sequence 5988, Ap
41	71.8	2.8	1041	18	US-10-437-963-8597	Sequence 8597, Ap
42	71.6	2.8	2561	9	US-09-976-740-48	Sequence 48, Appl
43	71.6	2.8	2561	13	US-10-023-523-48	Sequence 48, Appl
44	71.6	2.8	2561	13	US-10-023-523-48	Sequence 48, Appl
45	71.6	2.8	2561	17	US-10-616-187-48	Sequence 48, Appl

ALIGNMENTS

RESULT 1					
US-10-277-032-1					
; Sequence 1, Application US/10277032					
; Publication No. US20030087294A1					
GENERAL INFORMATION:					
; APPLICANT: Ming-Hui WEI					
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEIN, NUCLEIC					
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES					
; FILE REFERENCE: C1001305.DIV					
; CURRENT APPLICATION NUMBER: US/10/277,032					
; CURRENT FILING DATE: 2002-10-22					
; PRIOR APPLICATION NUMBER: 09/984,880					
; PRIOR FILING DATE: 2001-10-31					
; NUMBER OF SEQ ID NOS: 4					
; SOFTWARE: FastSeq for Windows Version 4.0					
; SEQ ID NO 1					
; LENGTH: 2571					
; TYPE: DNA					
; ORGANISM: HomoSapien					
US-10-277-032-1					
Query Match					
Best Local Similarity 100.0%; Score 2571; DB 14; Length 2571;					
Matches 2571; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
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Db					
1 CGGGGCGGAGGGGCGTGTGAGGCGGCATGAGCTTCGCCCGGCGCTCTTGCGCGG 60					
QY					
61 GCCACTGTGCGGCGCGCTCTGCGGCGGCGCGGAGGTCTGCGTGGGCGCATGAGCTCCGC 120					
Db					
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QY	121	GGGCGCGCTTGCTGCGGACCTTCCCGACATCCCTGGCTCACTTGGCCCTAGACGCGCA	180
Db	121	GTGCGCGCTTGCTGCGGACCTTCCCGACATCCCTGGCTCACTTGGCCCTAGACGCGCA	180
QY	181	CGCCCCCGCGACGACGAGCGCCCCCGACCCCGCGCTGGCGCGCGCTGTGGGGCCCCGGA	240
Db	181	CGCCCCCGCGACGACGAGCGCCCCCGACCCCGCGCTGGCGCGCGCTGTGGGGCCCCGGA	240
QY	241	GGGCAAGTACTGCGTGTCGTGCGCGCGTGAACCCCGGACGCGCGCTGCGGGGCCCGGCTCGG	300
Db	241	GGGCAAGTACTGCGTGTCGTGCGCGCGTGAACCCCGGACGCGCGCTGCGGGGCCCGGCTCGG	300
QY	301	GGCGGCGCGCGCTGCGACCAAGCGCTGCTGCACCAAGCTGCGCGCGGCCCTTCCAGCGGTG	360
Db	301	GGCGGCGCGCGCTGCGACCAAGCGCTGCTGCACCAAGCTGCGCGCGGCCCTTCCAGCGGTG	360
QY	361	CCAGCTGCTCAGAGCTGCTCTGCTACTGACCGCGCGCGCGACGAGCGCGGGGCGACAGCAAG	420
Db	361	CCAGCTGCTCAGAGCTGCTCTGCTACTGACCGCGCGCGCGACGAGCGCGGGGCGACAGCAAG	420
QY	421	CTTCCCTGCTGCGCGACCCCGCTGATGACCCCTGCACACCGCGCAAGCGCTGCTCAGCTGCT	480
Db	421	CTTCCCTGCTGCGCGACCCCGCTGATGACCCCGCTGCACACCGCGCAAGCGCTGCTCAGCTGCT	480
QY	481	GGGCGCGCTGCGACGAGAGGACCAAGCGCCCGCATTTGGGCGAGTTGAGGCGGACCCGCGCG	540
Db	481	GGGCGCGCTGCGACGAGAGGACCAAGCGCCCGCATTTGGGCGAGTTGAGGCGGACCCGCGCG	540
QY	541	CCAGCTGCTGAGCGCGCTCTGGGAGGTGCAAGCGCGCAGCGCGCTGCACTGAGTGGCGTGGCG	600
Db	541	CCAGCTGCTGAGCGCGCTCTGGGAGGTGCAAGCGCGCAGCGCGCTGCACTGAGTGGCGTGGCG	600
QY	601	ACAGGTCGTGCCCTGTCGCCGAGACCCCGCTGCACCCGCTGATGCGCACTTGGCCAGTTTC	660
Db	601	ACAGGTCGTGCCCTGTCGCCGAGACCCCGCTGCACCCGCTGATGCGCACTTGGCCAGTTTC	660
QY	661	CGTGGCTCTTCCCGGACCGGGAAGCGCGCGCGCGCTTTGGAGAGGTGACTCTCTTAT	720
Db	661	CGTGGCTCTTCCCGGACCGGGAAGCGCGCGCGCGCTTTGGAGAGGTGACTCTCTTAT	720
QY	721	TCCTGAAGCGCGGAGAGTGTGACCTGTGTGACCAAGTGCACCAACATCCAGAAAG	780
Db	721	TCCTGAAGCGCGGAGAGTGTGACCTGTGTGACCAAGTGCACCAACATCCAGAAAG	780
QY	781	AAAGTTCAGGTTGTGTGCATCGAAGAGACTGATGCGCAGGTTAAACACGCTGACCCA	840
Db	781	AAAGTTCAGGTTGTGTGCATCGAAGAGACTGATGCGCAGGTTAAACACGCTGACCCA	840
QY	841	GTCAGTGCGAGATTCACTTAAAGCTGTCTCTTAAAGTCAACACCCTCTTGACATTGGCCA	900
Db	841	GTCAGTGCGAGATTCACTTAAAGCTGTCTCTTAAAGTCAACACCCTCTTGACATTGGCCA	900
QY	901	GTGGAGGAAAGATCTTGAATGAAACCACTATCATTTAAGAGCTTTTACTCTTTGGG	960
Db	901	GTGGAGGAAAGATCTTGAATGAAACCACTATCATTTAAGAGCTTTTACTCTTTGGG	960
QY	961	CAATTATATTGTGGCCTCGGAATAGCTTAAAGAAATCTGCAATCTCTGTGATTGTAGA	1021
Db	961	CAATTATATTGTGGCCTCGGAATAGCTTAAAGAAATCTGCAATCTCTGTGATTGTAGA	1021
QY	1021	CAGGTAAGTGGCACAGCAGGACCTTATGCACTAGGCACTGAGGTGAGTGGGGGTCTCCA	1081
Db	1021	CAGGTAAGTGGCACAGCAGGACCTTATGCACTAGGCACTGAGGTGAGTGGGGGTCTCCA	1081
QY	1081	GCACCTGCCCCCAGGCCCATCACCTGTGTGACCAATGCGCGACAGGACCTGCTCAAACTTGA	1141
Db	1081	GCACCTGCCCCCAGGCCCATCACCTGTGTGACCAATGCGCGACAGGACCTGCTCAAACTTGA	1141
QY	1141	CCTTATCTGCTGCTCACTGTGAGTCTTGAAGAGGTTGCAAGGCTGCGCAGGCGCGGGG	1201
Db	1141	CCTTATCTGCTGCTCACTGTGAGTCTTGAAGAGGTTGCAAGGCTGCGCAGGCGCGGGG	1201
QY	1201	CATGAGAGAACACAGGAAAGAACCACTTGAAGGCGCAAGTGTGTCTGTCAAAAGGT	1261

Db	1201	CATGGAGAGGACCGAGGAGGAAGCAACTTGAGGCGCAACAGTGTGTTTCGTCAAAGGTT	126
OY	1261	AGAAATGCTCCACGACGCGATGAGAAATCCTGGCTGCATGTGGTTGATGCGACGCCCTC	1320
Db	1261	AGAAATGCTCCACGACGCGGATGAGAAATCTGGCTGCATGTGGTTGATGCGACGCCCTC	1322
OY	1321	CAGAGAAAAGGTCCTGCAGACAGTATTAGCTTAATCCAGAAATAGTTTAACTGAAACGTA	1380
Db	1321	CAGAGAAAAGGTCCTGCAGACAGTATTAGCTTAATCCAGAAATAGTTTAACTGAAACGTA	1380
OY	1381	GTTACTCTGGCCAGGTGCGACGTCTAACTAATATGATGTTGTTGAAACATCTACATCC	1440
Db	1381	GTTACTCTGGCCAGGTGCGACGTCTAACTAATGATGTTGTTGAAACATCTACATCC	1440
OY	1441	ACCAATTTGTATGACAGTGTCCCAAAATTCGTCTCAACAGCATGTTGTGGCAGAAAA	1500
Db	1441	ACCAATTTGTATGACAGTGTCCCAAAATTCGTCTCAACAGCATGTTGTGGCAGAAAA	1500
OY	1501	CTGGAGACCAAGCATCTTAATTTATCTTCAGCCATCGTAACTCTTCAGATGATGAC	1560
Db	1501	CTGGAGACCAAGCATCTTAATTTATCTTCAGCCATCGTAACTCTTCAGATGATGAC	1560
OY	1561	CGTCATCAAAAGTCCCTCTCATCATGTTCGAGTGAAGGCGACGATGCTTTCTTCC	1620
Db	1561	CGTCATCAAAAGTCCCTCTCATCATGTTCGAGTGAAGGCGACGATGCTTTCTTCC	1620
OY	1621	TGGCATGTAAACATTTTCTTGAAACATATGTTTCACTTAATCACTAACAAATATCTGGA	1680
Db	1621	TGGCATGTAAACATTTTCTTGAAACATATGTTTCACTTAATCACTAACAAATATCTGGA	1680
OY	1681	AGACCTGTCTTACTCAGACAGACACAGGTGTACAGAAACAGACAGACAGATCTTCCAGAT	1740
Db	1681	AGACCTGTCTTACTCAGACAGACACAGGTGTACAGAAACAGACAGACAGATCTTCCAGAT	1740
OY	1741	CAGCAGGGAAGACCCCGAGGCTCTGCTTCTCTTACCTGGCATGTGATGATGATGTCGAC	1800
Db	1741	CAGCAGGGAAGACCCCGAGGCTCTGCTTCTCTTACCTGGCATGTGATGATGATGTCGAC	1800
OY	1801	ATGCCCCATTTGGCTTCTTCCACATCTGGTTGACCTGTCATGATGAGGCTGCGTCATCT	1860
Db	1801	ATGCCCCATTTGGCTTCTTCCACATCTGGTTGACCTGTCATGATGAGGCTGCGTCATCT	1860
OY	1861	CCCTCAGTCCCAAAATTCATAGGCAAGTGTCCGACAGAGCGTCTATGTGTCTGGC	1920
Db	1861	CCCTCAGTCCCAAAATTCATAGGCAAGTGTCCGACAGAGCGTCTATGTGTGTCTGGC	1920
OY	1921	TGCCCAAGGACACTCTCTGCAGAGCCATTTTGGGTAAAGAACCTTAACAAGAAAGCAT	1980
Db	1921	TGCCCAAGGACACTCTCTGCAGAGCCATTTTGGGTAAAGAACCTTAACAAGAAAGCAT	1980
OY	1981	TGATCTTGTGTCTGACAGGCTCAGAGCCCTTTTGATAGAGCTTCTGATGTCACTTAAGAC	2040
Db	1981	TGATCTTGTGTCTGACAGGCTCAGAGCCCTTTTGATAGAGCTTCTGATGTCACTTAAGAC	2040
OY	2041	ATTCAAGCAAGATGCTCCAATCTCAAAATATACCAACTCTCGAATTAATATTTGGTT	2100
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OY	2101	ATTTAATATTTCTTTTCTTTTCTTAAGAAATGGCTCTGAAATGAAATGACATTTTCCA	2160
Db	2101	ATTTAATATTTCTTTTCTTTTCTTAAGAAATGGCTCTGAAATGAAATGACATTTTCCA	2160
OY	2161	TCGGAACCTGATGATATCATATTAGCCATTCACATAATTAATTAATATCTATACAT	2220
Db	2161	TCGGAACCTGATGATATCATATTAGCCATTCACATAATTAATTAATATCTATACAT	2220
OY	2221	AATATGTTTCCCTCAGCATAGAGGCTATGATTCATTAATTAAGGTGAGTCGAAACGCTA	2280
Db	2221	AATATGTTTCCCTCAGCATAGAGGCTATGATTCATTAATTAAGGTGAGTCGAAACGCTA	2280
OY	2281	AATCAATGTTTGTGTGTATTTTCATTAACAACAATTAATTTGCTGTGTTAAATAGTT	2340

Db 2281 AATGCAATGTTGTGTGATTTTATACCAAACTTAATTTGTCTTTAAATAAGTT 2340
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Db 2341 CAAGTGAATTTTGAAGGGAATTTCTTGTAATTAATTTGCACTTGAATGTCTCATGAT 2400
Qy 2401 TACATATGAATGCTTTTGAACATATCTTTAGACAGAAAAAGTAGTAGAGGGGAA 2460
Db 2401 TACATATGAATGCTTTTGAACATATCTTTAGACAGAAAAAGTAGTAGAGGGGAA 2460
Qy 2461 ATTATAGAGCTTGTGACTTTTAGAGAGTAGTGTCTTTATACATACTCAAGCCCTG 2520
Db 2461 ATTATAGAGCTTGTGACTTTTAGAGAGTAGTGTCTTTATACATACTCAAGCCCTG 2520
Qy 2521 AAGCTTTGATGTCCTGCAAGCTGCACTTAAAGAGGGGCTTTTGACCC 2571
Db 2521 AAGCTTTGATGTCCTGCAAGCTGCACTTAAAGAGGGGCTTTTGACCC 2571

RESULT 2
US-10-681-223-1
; Sequence 1, Application US/10681223
; Publication No. US20040081999A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: CL001305 DIV-II
; CURRENT APPLICATION NUMBER: US/10/681,223
; PRIOR FILING DATE: 2003-10-09
; PRIOR APPLICATION NUMBER: 10/277,032
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2571
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-681-223-1

Query Match 100.0%; Score 2571; DB 17; Length 2571;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2571; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 421 CTTCCTGCTGCGGAGACCCCTTGATGACCTTGACACCCGGAAGCGTGTCTGAGCTGCT 480
Db 421 CTTCCTGCTGCGGAGACCCCTTGATGACCTTGACACCCGGAAGCGTGTCTGAGCTGCT 480
Qy 481 GGGCGCTGCGCAGAGGACACAGCGCGCACTTGGGCGAGTTGAGAGCCGACCGCGG 540
Db 481 GGGCGCTGCGCAGAGGACACAGCGCGCACTTGGGCGAGTTGAGAGCCGACCGCGG 540
Qy 541 CCAGTGTGCGACGCTCTTGAGAGTGCAGAGCGCAGCGCTGCAAGTGGGCTGCGC 600
Db 541 CCAGTGTGCGACGCTCTTGAGAGTGCAGAGCGCAGCGCTGCAAGTGGGCTGCGC 600
Qy 601 ACAGGTGCTGCGCTGCGGAGCGCCGCTGCAACCGGCTGTCACAGACTTGGCCAGTTC 660
Db 601 ACAGGTGCTGCGCTGCGGAGCGCCGCTGCAACCGGCTGTCACAGACTTGGCCAGTTC 660
Qy 661 CGTGTCTTCCGGGACCGGGAAGCGCGCGGCGGTTTGGAGAGTGAATCTCTTAT 720
Db 661 CGTGTCTTCCGGGACCGGGAAGCGCGCGGCGGTTTGGAGAGTGAATCTCTTAT 720
Qy 721 TCCTGAAGCCCGGCGAGTGTGACCTGTGACAGTGCACAAACAGATCCAGAAAG 780
Db 721 TCCTGAAGCCCGGCGAGTGTGACCTGTGACAGTGCACAAACAGATCCAGAAAG 780
Qy 781 AAGTTCAGGTGTTGTCATGAGAGTGTGATGCAAGAGTGTGCAAGGTTTAACTCTTGGG 840
Db 781 AAGTTCAGGTGTTGTCATGAGAGTGTGATGCAAGAGTGTGCAAGGTTTAACTCTTGGG 840
Qy 841 GTGAGGAGAGATTCACTTAAGGCTGCTTAAAGTCAACACCGCTTGGAGTGGCA 900
Db 841 GTGAGGAGAGATTCACTTAAGGCTGCTTAAAGTCAACACCGCTTGGAGTGGCA 900
Qy 901 GTGAGGAGAGATTCTTTAGATGATGAACCAACTATCATTAAGAGCTTTTAACTCTTGGG 960
Db 901 GTGAGGAGAGATTCTTTAGATGATGAACCAACTATCATTAAGAGCTTTTAACTCTTGGG 960
Qy 961 CAATTATATTTGCTGCTCGGAATAGCTAAAGATTCCTCTGTGATTTGAGA 1020
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Db 1021 CAGTACTGCGCAGACGCGCACTATGCGATGACGACGATGACGAGTGGAGGCTGCA 1080
Qy 1081 GCACTGCGCCGACGCCATCACTCTGTGATCAAGTGGCAAGAGACTGCTCAAACTGA 1140
Db 1081 GCACTGCGCCGACGCCATCACTCTGTGATCAAGTGGCAAGAGACTGCTCAAACTGA 1140
Qy 1141 CTTATCTGCTGCTCACTGTGATCTGAGAGAGTGGCAAGGCTGCAAGGCTGCAAGG 1200
Db 1141 CTTATCTGCTGCTCACTGTGATCTGAGAGAGTGGCAAGGCTGCAAGGCTGCAAGG 1200
Qy 1201 CATGAGAGAGACAGAGGAGAGAGCAACTGAGGCAACAGGTGTTTCTGTAAGAGT 1260
Db 1201 CATGAGAGAGACAGAGGAGAGAGCAACTGAGGCAACAGGTGTTTCTGTAAGAGT 1260
Qy 1261 AGAAATGCTCTACAGAGAGAGAGTCTGAGTCACTGTGATGATGAGGCGCTG 1320
Db 1261 AGAAATGCTCTACAGAGAGAGAGTCTGAGTCACTGTGATGATGAGGCGCTG 1320
Qy 1321 CAGAGAAAAGTCTGCAAGACAGTATTAAGCTTAATCCAGAAATGTTTGAACCGTA 1380
Db 1321 CAGAGAAAAGTCTGCAAGACAGTATTAAGCTTAATCCAGAAATGTTTGAACCGTA 1380
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Qy 1441 ACCATTGTTATGCAAGTGTCCCAATTTCTGTTCTTCAAGACATGTTGTGCGCAGAAA 1500
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QY 1681 AGACCTGTCTTACTCAGACAGACACAGGTGTACAGAGAGCAGACAGATCTTCCAGAT 1740
Db 1681 AGACCTGTCTTACTCAGACAGACACAGGTGTACAGAGAGCAGACAGATCTTCCAGAT 1740
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Db 1801 ATGCCCATGTTGGCTTTTCCACATCTGTTGCACTGCTCATGATGAGGCTCGCTGACATCT 1860
QY 1861 CCTCAGTCCCAATTTCTAGTACCAAGTGTCTGAGAGGCTGTCTAATGTGCTCTGGC 1920
Db 1861 CCTCAGTCCCAATTTCTAGTACCAAGTGTCTGAGAGGCTGTCTAATGTGCTCTGGC 1920
QY 1921 TGGCCAAAGGAGCACTCTGAGAGCCATTTTGGGTAAAGAACACTTACAAAGAGGCAAT 1980
Db 1921 TGGCCAAAGGAGCACTCTGAGAGCCATTTTGGGTAAAGAACACTTACAAAGAGGCAAT 1980
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QY 2041 ATTCAAGCCAAAGATGCTCCAGATGCAAAATATACCACTTCTGTAATATATTTTGGCT 2100
Db 2041 ATTCAAGCCAAAGATGCTCCAGATGCAAAATATACCACTTCTGTAATATATTTTGGCT 2100
QY 2101 ATTATATTTCTTTCTTTTCTTTTCTTAAAGATTTGGCTCTGAAATGATGACATTTTCCA 2160
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QY 2461 ATTATAGAGCTTGTGATCTTTAGAGGAGTGTCTCTTATACATATCTCAACCTCTG 2520
Db 2461 ATTATAGAGCTTGTGATCTTTAGAGGAGTGTCTCTTATACATATCTCAACCTCTG 2520
QY 2521 AAGCTTGCATGCTCTGAGCGTGCACATAAGAGAGGGGGCTTTTGACACC 2571
Db 2521 AAGCTTGCATGCTCTGAGCGTGCACATAAGAGAGGGGGCTTTTGACACC 2571

RESULT 3
US-10-305-810-6
Sequence 6, Application US/10305810
Publication No. US20030176385A1
GENERAL INFORMATION:
APPLICANT: Wu, Jinfang
APPLICANT: Huang, Chunli
APPLICANT: Zhong, Haihong
APPLICANT: Simons, Jan Fredrik
APPLICANT: Tailon, Bruce E.
APPLICANT: Chant, John S.
APPLICANT: Peyman, John A.
APPLICANT: Smithson, Glenda
APPLICANT: Millet, Isabelle
TITLE OF INVENTION: ANTISENSE MODULATION OF PROTEIN EXPRESSION
FILE REFERENCE: 21402-501
CURRENT APPLICATION NUMBER: US/10/305,810
CURRENT FILING DATE: 2002-11-27
PRIOR APPLICATION NUMBER: 60/334,148
PRIOR FILING DATE: 2001-11-29
PRIOR APPLICATION NUMBER: 60/336,572
PRIOR FILING DATE: 2001-12-04
PRIOR APPLICATION NUMBER: 09/625,634
PRIOR FILING DATE: 2000-07-26
PRIOR APPLICATION NUMBER: 60/192,838
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: 60/194,256
PRIOR FILING DATE: 2000-04-03
PRIOR APPLICATION NUMBER: 09/957,187
PRIOR FILING DATE: 2001-09-19
PRIOR APPLICATION NUMBER: 60/233,798
PRIOR FILING DATE: 2000-09-19
PRIOR APPLICATION NUMBER: 09/970,813
PRIOR FILING DATE: 2001-10-04
PRIOR APPLICATION NUMBER: 60/182,637
PRIOR FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/240,316
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 47
SOFTWARE: Curoseqlist version 0.1
SEQ ID NO 6
LENGTH: 2856
TYPE: DNA
ORGANISM: Thymidine Kinase
US-10-305-810-6
Query Match 88.5%; Score 2276; DB 16; Length 2856;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 2388; Conservative 0; Mismatches 10; Indels 16; Gaps 9;
QY 83 GGGGCGGCGGGGCTGCGCTGGGGCCATGCGCTCGGCTTGGTCTGAGACTT 142
Db 1 GGGGCGGCGGGGCTGCGCTGGGGCCATGCGCTCGGCGGCGCTTGGTCTGAGACTT 60
QY 143 CCGGACTGACCCCTGGGCTCACTTGGCCCTAGGCGCCGACCCCGGGGACGACAGAGCC 202
Db 61 CCGGACTGACCCCTGGGCTCACTTGGCCCTAGGCGCCGACCCCGGGGACGACAGAGCC 120
QY 203 CCGGACCCCGGCTGGGCGGCTGTTGGGGCCCGCGAGGAGCACTTGGTGTGGTG 262
Db 121 CCGGACCCCGGCTGGGCGGCTGTTGGGGCCCGCGAGGAGCACTTGGTGTGGTG 180
QY 263 CCGGTGACCCCGGAGCGCGGCTGGGGGCGGGGTCGGGCGGCGGCTGACACAGCGC 322
Db 181 CCGGTGACCCCGGAGCGCGGCTGGGGGCGGGGTCGGGCGGCGGCTGACACAGCGC 240
QY 323 CTGTGACACAGCTGCGCGCGGCGGCTTCCAGGAGTGCAGAGTCTGAGGCTGCTGCG 382
Db 241 CTGTGACACAGCTGCGCGCGGCGGCTTCCAGGAGTGCAGAGTCTGAGGCTGCTGCG 300
QY 383 TACTGCCGGGCGGCGAGGCGGCGGCGGACAGCAAGGCTTCTGTGCGGACCCCTG 442

Db	301	TACTGCCCCGGGGGCGAGGCGGCGGCGCACAGCAAGGCTTTCGTGCTGCGGACCCCTGTG	360
OY	443	GATGACCTCTGACACCCGGCGAAGCGCTGTGCTGAGCTGTGAGGCGGCTTGGCAGAGGACCA	502
Db	361	GATGACCTCTGACACCCGGCGAAGCGCTGTGCTGAGCTGTGAGGCGGCTTGGCAGAGGACCA	420
OY	503	CGCCCGCACCTTGGGGCGAGTTGCGAGGCCGACCCGCGCGGCGCAGCTGTGGCAGCGCTCTGG	562
Db	421	CGCCCGCACCTTGGGGCGAGTTGCGAGGCCGACCCGCGCGGCGCAGCTGTGGCAGCGCTCTGG	480
OY	553	GNGTGTGCAAGACGGAGGCGGCTGTGAGGTGGGCTGTGCGCACAGGTGTGCTCCGTCGGAG	622
Db	481	GAGGTGCAAGACGGAGGCGGCTGTGAGGTGGGCTGTGCGCACAGGTGTGCTCCGTCGGAG	540
OY	623	CCCCCGCTGACACCCGGGTGTGCGACACTTGGCCAGTTCCGATGATCTTCCCGGACCGGGA	682
Db	541	CCCCCGCTGACACCCGGGTGTGCGACACTTGGCCAGTTCCGATGATCTTCCCGGACCGGGA	600
OY	683	GCCGCGCCGGGCGCTTTTGGAGGAGTGTACCTTCCTTATTCCTGAAGCCCGGGCAGTGTCT	742
Db	601	GCCGCGCCGGGCGCTTTTGGAGGAGTGTACCTTCCTTATTCCTGAAGCCCGGGCAGTGTCT	660
OY	743	GNCTGTGTGACCAAGTGTGCTCCAAACAGATCCAGAAAGGAAAGTTCCAGGTTGTGCTCATC	802
Db	661	GACCTGTGTGACCAAGTGTGCTCCAAACAGATCCAGAAAGGAAAGTTCCAGGTTGTGCTCATC	720
OY	803	GAAGGACTGGATGGCCACG---GGTAAACACACGGGACCCAGTGCAGTGCAGATTCACCTT	859
Db	721	GAAGGACTGGATGGCCACGGGTGTGTAACACACGGGTGACCCAGTGCAGTGCAGATTCACCTT	780
OY	860	AAGGTGTCTCTTAAAGTGCACACCCCTTGTGATTTGGCCAGTGGAGGAGAAATCTTTGAT	919
Db	781	AAGGTGTCTCTTAAAGTGCACACCCCTTGTGATTTGGCCAGTGGAGGAGAAATCTTTGAT	840
OY	920	GATGAACCAACTATCATTTAGAAAGAGCTTTTATCTTTGGGCATTTATTTGTGGCTTCC	979
Db	841	GATGAACCAACTATCATTTAGAAAGAGCTTTTATCTTTGGGCATTTATTTGTGGCTTCC	900
OY	980	GAAATAGCTAAAGAAATCTGCCAAATCTCTGTGATTTGTAAGACAGTACTGGCACAAGACG	1039
Db	901	GAAATAGCTAAAGAAATCTGCCAAATCTCTGTGATTTGTAAGACAC-----GGCACAGCACG	954
OY	1040	GCCACTTATGCGCATGTAGCCACTGAGGTGAGTGGGGGCTCTCCAGACCTGCCGCCAGCCCAT	1099
Db	955	GCCACTTATGCGCATGTAGCCACTGAGGTGAGTGGGGGCTCTCTCCAGACCTGCCGCCAGCCCAT	1014
OY	1100	CACCTGTGTACAGGTGGCCAGAGGACCTGTCTCAAACTGTACCTTATCTGTGCTGCTACT	1159
Db	1015	CACCTGTGTGTACAGGTGGCCAGAGGACCTGTCTCAAACTGTACCTTATCTGTGCTGCTACT	1074
OY	1160	GTGAGTCTCTGAGAGAGGTTGCAGAGGCTGCAGAGGCGCGGGCATGCGAABAACACAGGAA	1219
Db	1075	GTGAGTCTCTGAGAGAGGTTGCAGAGGCTGCAGAGGCGCGGGCATGCGAABAACACAGGAA	1134
OY	1220	GAAGCAGAACTTGAAGGCCAACAGTGTGTCTTCCTCAAAAGTAAAGTGTCTTACCAAGCGG	1279
Db	1135	GAAGCAGAACTTGAAGGCCAACAGTGTGTCTTCCTCAAAAGTAAAGTGTCTTACCAAGCGG	1194
OY	1280	ATGGAAGATCTGTGCTGTGCATGTGTGATGTGCAGGCGCTTCACAGAAAGAGTCTGTGAG	1339
Db	1195	ATGGAAGATCTGTGCTGTGCATGTGTGATGTGCAGGCGCTTCACAGAAAGAGTCTGTGAG	1254
OY	1340	ACAGATTTAAACCTTAATCCAGAAATGTTTAAAGTAAACGATGATTAATCTGTGCGCAGGTGCC	1399
Db	1255	ACAGATTTAAACCTTAATCCAGAAATGTTTAAAGTAAACGATGATTAATCTGTGCGCAGGTGCC	1314
OY	1400	ACGTCTAACTAGATTAGATGTGTGTTGAACACATCTACATCCACCATTTGTGTATGCAAGTGT	1459
Db	1315	ACGTCTAACTAGATTAGATGTGTGTTGAACACATCTACATCCACCATTTGTGTATGCAAGTGT	1374
OY	1460	TCCCAATTTCTGTTCTACCAAGCATGTTGTGTGGCAGAAACTGGAGCCAGGCATCTTA	1519

Db	1375	TCCCAATTTCTGTTCTTAACAAGACTGTTGTGTGGCAGAAAATCGAGACCAAGGACATCTTA	1434
QY	1520	ATTTTACTTCAGCCATGTAACCTCTCTTCTGACTGATGGAACCCGTCATCACAAAGTCCCT	1579
Db	1435	ATTTTACTTCAGCCATGTAACCTCTCTTCTGACTGATGGAACCCGTCATCACAAAGTCCCT	1494
QY	1580	CTCATCATGTTCCAGTGAAGGCGACGAGATTGCTTTCTTCTCGGCATATGTAACATTTTC	1639
Db	1495	CTCATCATGTTCCAGTGAAGGCGACGAGATTGCTTTCTTCTCGGCATATGTAACATTTTC	1554
QY	1640	TTGGAACAATAGTTTCACTTAATACATACCAAAATATCTGAAAGACGTGCTTACTCGAC	1699
Db	1555	TTGGAACAATAGTTTCACTTAATACATACCAAAATATCTGAAAGACGTGCTTACTCGAC	1614
QY	1700	AGCACCAAGTGTGACAGAAAGCAGACAGAAGATCTTCCAGATCACAGGAGAACCCCGAG	1759
Db	1615	AGCACCAAGTGTGACAGAAAGCAGACAGAAGATCTTCCAGATCACAGGAGAACCCCGAG	1674
QY	1760	CCTGTGCTTCTCTTACACTGGCATGCTGATGAGATCGTGAATGCCACATTTGGCTTCTT	1819
Db	1675	CCTGTGCTTCTCTTACACTGGCATGCTGATGAGATCGTGAATGCCACATTTGGCTTCTT	1734
QY	1820	CCACATCTGGTGTGACACTCGTCATATATGGCGCTCGGTGATCTCCCTCAGTCCCAATTTCTA	1879
Db	1735	CCACATCTGGTGTGACACTCGTCATATATGGCGCTCGGTGATCTCCCTCAGTCCCAATTTCTA	1794
QY	1880	GTAGCCAAAGTGTTCCTCTCAGAGGCTGTCTATGTGTCTCTGGCTGCCAAGGACACTCTCG	1939
Db	1795	G-AAGCCAGTGTTCCTCTCAGAGGCTGTCTATGTGTCTCTGGCTGCCAAGGACACTCTCG	1852
QY	1940	CAGAGCCATTTTGGGTAGGAACACCTTACAAAGAGCATTTGATCTTGTGTCTGAGCT	1999
Db	1853	CAGAGCCATTTTGGGTAGGAACACCTTACAAAGAGCATTTGATCTTGTGTCTGAGGCT	1912
QY	2000	CAGAGCCCTTTGATATAGGCTTCTGATGTCACTTACATAAGACATTCAGCCAAAGTGTCTCC	2059
Db	1913	CAGAGCCCTTTTGGATAGGCTTCTTA-GTCAATATATTAAGACATTCAGCCAAAGTGTCTCC	1971
QY	2060	AACGCAAAATATACCAACCTTCTGTGAATTAATTTTGTCTTATATTTCTTTTCTTT	2119
Db	1972	AACGCAAAATATACCAACCTTCTGTGAATTAATTTTGTCTTATATTTCTTTTCTTT	2031
QY	2120	TTTTCTAAAGATTGGCTCTGAAATGATGACATTTTCCATCTGAACTGAGTGCATATC	2179
Db	2032	TTTTCTAAAGTA-TGGCTGTGAATGATGATGACATTTTCCAT-TGAATGTGATGCATTTTC	2089
QY	2180	ATTATAGCCAAATCCAGTAATTTATTTATATTAATCTATATACATATATGTTTTCTCAGCAT	2239
Db	2090	ATTATAGCCAAATCCAGTAATTTATTTATATTAATCTATATACATATATGTTTTCTCAGCAT	2149
QY	2240	GGAGCTATGATCTCAATTAATTAAGTGAAGCAAAAGCCTAAATGCAATGTTTGTGTGT	2299
Db	2150	GGAGCTATGATCTCAATTAATTAAGTGAAGCAAAAGCCTAAATGCAATGTTTGTGTGT	2209
QY	2300	ATTTTCAATACAAACCTTAATTTGTCTTGTTAATAAGTTCAGATGATCTTGTGAATGG	2359
Db	2210	ATTTTCAATACAAACCTTAATTTGTCTTGTTAATAAGTTCAGATGATCTTGTGAATGG	2268
QY	2360	GATTTCTTGGTAATTAATCTTGCACCTGGAATGTCTCATATGTAATGCAATGCTTTTG	2419
Db	2269	GATTTCTTGGTAATTAATCTTGCACCTGGAATGTCTCATATGTAATGCAATGCTTTTG	2388
QY	2420	ACATATCTTTTGAAGAAAAAGTGAAGTGAAGTGAAGGAGGAAAAATTAATGAGCTTGTGAC	2479
Db	2329	ACATATCTTTTGAAGAAAAAGTGAAGTGAAGTGAAGGAGGAAAAATTAATGAGC-TGTGTGAC	2387
QY	2480	TTTAGGAGTAGTCT 2493	
Db	2388	TTTAGGAGTAGTGT 2401	

RESULT 4
US-10-044-090-720

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; Sequence 720, Application US/10044090
; Publication No. US20020137081A1
; GENERAL INFORMATION:
; APPLICANT: Olga Bandman
; TITLE OF INVENTION: GENES DIFFERENTIALLY EXPRESSED IN VASCULAR TISSUE ACTIVATION
; FILE REFERENCE: PA-0028 US
; CURRENT APPLICATION NUMBER: US/10/044,090
; CURRENT FILING DATE: 2002-01-09
; NUMBER OF SEQ ID NOS: 850
; SOFTWARE: PERL Program
; SEQ ID NO: 720
; LENGTH: 2645
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020137081A1 197362.2
US-10-044-090-720
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Query Match      82.7%; Score 2125.2; DB 13; Length 2645;
Best Local Similarity 99.3%; Pred. No. 0;
Matches 2207; Conservative 0; Mismatches 8; Indels 7; Gaps 7;

QY      272  CCGAGACGCGCGCTGCGGGGCGCGGATCCGGGCGCGCGCTGCACGACGCGCTGTGCAC 331
DB      1    CCGAGACGCGCGCTGCGGGGCGCGGATCCGGGCGCGCGCTGCACGACGCGCTGTGCAC 60

QY      332  CAGCTGGCGCGCGCGCGCTTCCAGCGGTGCGAGCTGTCAAGGTGCTGTCTAATGCCG 391
DB      61  CAGCTGGCGCGCGCGCGCTTCCAGCGGTGCGAGCTGTCAAGGTGCTGTCTAATGCCG 120

QY      392  GGGGCGCAGGCGCGCGCGCGCAGCAGAGGCTTCTGTGCGCGACCCCGTGATGACCT 451
DB      121  GGGGCGCAGGCGCGCGCGCGCAGCAGAGGCTTCTGTGCGCGACCCCGTGATGACCT 180

QY      452  GAFACCGCGCAGCGCTGCTCGAGCTGTGGGCGCTGTCCAGAGGCGACACGCGCGCAC 511
DB      181  GAFACCGCGCAGCGCTGCTCGAGCTGTGGGCGCTGTCCAGAGGCGACACGCGCGCAC 240

QY      512  TTGGGCGAGTTGAGGCGCGACCGCGCGCGCGCGCTGTGCGAGCGCTTGTGGAGGTGCA 571
DB      241  TTGGGCGAGTTGAGGCGCGACCGCGCGCGCGCGCTGTGCGAGCGCTTGTGGAGGTGCA 300

QY      572  GACGCGAGGCGCGCTGCGAGGTGGGCTGCGCAGAGTGTGCGCGTCCCGAGGCGCGCGCTG 631
DB      301  GACGCGAGGCGCGCTGCGAGGTGGGCTGCGCAGAGTGTGCGCGTCCCGAGGCGCGCGCTG 360

QY      632  CACCGCGGTGTGCGACATTTGCCAGTTCCGTGTCTTCCGAGACCGGAGACCGCGCGG 691
DB      361  CACCGCGGTGTGCGACATTTGCCAGTTCCGTGTCTTCCGAGACCGGAGACCGCGCGG 420

QY      692  GCGTTTTGAGAGAGTACTCTCTTATTTCCGAAAGCCCGGAGAGTGTGTAACCTGGTC 751
DB      421  GCGTTTTGAGAGAGTACTCTCTTATTTCCGAAAGCCCGGAGAGTGTGTAACCTGGTC 480

QY      752  GACAGGTGCGCAAAACAGATCCAGAAAGAAAGTTCCAGTGTGTTGCCATCGAAGAGCTG 811
DB      481  GACAGGTGCGCAAAACAGATCCAGAAAGAAAGTTCCAGTGTGTTGCCATCGAAGAGCTG 540

QY      812  GATGCGACGGGTAAACCAACGATGACCCAGTCAAGTGGCAGATTTCACTTAAGGCTGTCTC 871
DB      541  GATGCGACGGGTAAACCAACGATGACCCAGTCAAGTGGCAGATTTCACTTAAGGCTGTCTC 600

QY      872  TTTAAGTCAACACCTCTTGCATTTGGCCAGTGAAGAGATCTTTGATGATGAACCAACT 931
DB      601  TTTAAGTCAACACCTCTTGCATTTGGCCAGTGAAGAGATCTTTGATGATGAACCAACT 660

QY      932  ATCATTTAAGAGCTTTTATCTTTTGGCAATTAATTGTGGCTCCGAAATAGCTTAA 991
DB      661  ATCATTTAAGAGCTTTTATCTTTTGGCAATTAATTGTGGCTCCGAAATAGCTTAA 720

QY      992  GAATCTGCAAAATCTCTGTGATGTGAGCAGGTACTGGCACAGACCGGCACCTATGCC 1051
DB      |||
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DB      721  GAATCTGCAAAATCTCTGTGATGTGAGCAGGTACTGGCACAGACCGGCACCTATGCC 780
QY      1052  ATAGCCACTGAGGTAGTGGGGGTCTCCGACACTGCCCCGAGCCCATCACTGTGTAC 1111
DB      781  ATAGCCACTGAGGTAGTGGGGGTCTCCGACACTGCCCCGAGCCCATCACTGTGTAC 840
QY      1112  CAGTGGCCAGAGACCTGTCTAAACCTTGAACCTTATCTGTGCTGCTCACTGTAGTCTGAG 1171
DB      841  CAGTGGCCAGAGACCTGTCTAAACCTTATCTGTGCTGCTCACTGTAGTCTGAG 900
QY      1172  GAGAGTTGCAAGGCTGACGGGCGCGGCGCATGTGAGAGACCAAGGAAAGACAACTT 1231
DB      901  GAGAGTTGCAAGGCTGACGGGCGCGGCGCATGTGAGAGACCAAGGAAAGACAACTT 960
QY      1232  GAGGCCAACAGTGTGTTTGTCAAAAAGGTAGAAATGTCTTACAGCGGATGAGAACTCT 1291
DB      961  GAGGCCAACAGTGTGTTTGTCAAAAAGGTAGAAATGTCTTACAGCGGATGAGAACTCT 1020
QY      1292  GCGTCCCATGTGTGTGATGACGACCCCTCCAGAGAAAAGTCTGACAGATTTAAGC 1351
DB      1021  GCGTCCCATGTGTGTGATGACGACCCCTCCAGAGAAAAGTCTGACAGATTTAAGC 1080
QY      1352  CTATTCAGAAATGTTTAGTGAACCGTAATTACTGTGGCCAGGTGCCAGCTTAATGAC 1411
DB      1081  CTATTCAGAAATGTTTAGTGAACCGTAATTACTGTGGCCAGGTGCCAGCTTAATGAC 1140
QY      1412  ATTAGATGTGTGTTGAAACATCTACATCCACATTTGTTATGAGAGTGTCCCAATTTCT 1471
DB      1141  ATTAGATGTGTGTTGAAACATCTACATCCACATTTGTTATGAGAGTGTCCCAATTTCT 1200
QY      1472  GTTTCACAAAGATGTGTGTGGCAGAAAACCTGAGAACCAAGGATCTTAATTTTACTGAG 1531
DB      1201  GTTTCACAAAGATGTGTGTGGCAGAAAACCTGAGAACCAAGGATCTTAATTTTACTGAG 1260
QY      1532  CCATGTACCCCTCTTCTGACTGATGAGACCCGCTCATCAAAAGTCCCTCATCATGTTC 1591
DB      1261  CCATGTACCCCTCTTCTGACTGATGAGACCCGCTCATCAAAAGTCCCTCATCATGTTC 1320
QY      1592  CAGTGAAGGCGCAGCGATTTGCTTCTTCTGCGCATGTAAACATTTTCTTGAACATATG 1651
DB      1321  CAGTGAAGGCGCAGCGATTTGCTTCTTCTGCGCATGTAAACATTTTCTTGAACATATG 1380
QY      1652  TTTCACTTAATCACTACCAAAATATCTGGAAGACCTGTCTTACTAGACAGACCAAGTGT 1711
DB      1381  TTTCACTTAATCACTACCAAAATATCTGGAAGACCTGTCTTACTAGACAGACCAAGTGT 1440
QY      1712  ACAGAAAGCAGACCAAGATCTTCCAGATCAGCAGGAGAACCCCGAGGCTGTGCTCTC 1771
DB      1441  ACAGAAAGCAGACCAAGATCTTCCAGATCAGCAGGAGAACCCCGAGGCTGTGCTCTC 1500
QY      1772  CTACACTGGCATGTGTGATGAGATGTGATGCCACATTTGGCTTTTCCACATGTGGTT 1831
DB      1501  CTACACTGGCATGTGTGATGAGATGTGATGCCACATTTGGCTTTTCCACATGTGGTT 1560
QY      1832  GCACTGTCATGATGGGCTGCTGCATCTCCCTCAGTCCCAAAATTTCAATGAGCAAGTGT 1891
DB      1561  GCACTGTCATGATGGGCTGCTGCATCTCCCTCAGTCCCAAAATTTCAAG-AGCCAATGTGT 1619
QY      1892  TCTGCGACAGGCTGTCTATGTGTCTGTGGCTGCCCAAGGAGCACTCTGCGAGAGCAATTT 1951
DB      1620  TCTGCGACAGGCTGTCTATGTGTGTCTGTGGCTGCCCA- GGAACATCTGCGAGAGCAATTT 1678
QY      1952  TGGGTAAAGAAACCTTACAAAGAAAGGATGTGATCTTGTGTCTGAGGCTCAGAGCCCTTTT 2011
DB      1679  TGGGTAAAGAAACCTTACAAAGAAAGGATGTGATCTTGTGTCTGAGGCTCAGAGCCCTTTT 1738
QY      2012  GATAGGCTTGTGATGTCAATCATTAAGACATTTCAAGCAGATGCTCAACTGAAATAT 2071
DB      1739  GATAGGCTTGTGATGTCAATCATTAAGACATTTCAAGCAGATGCTCAACTGAAATAT 1797
QY      2072  ACCAACCTTCTCTGAATTAATTTTGGTTATTTAATTTCTTTTCTTTTCTTAAAGAA 2131
DB      1798  ACCAACCTTCTCTGAATTAATTTTGGTTATTTAATTTCTTTTCTTTTCTTAAAGTA 1857
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Db 607 TGCCAGAGGACCTGCTCAAACTGACCTTATCTGCTGCTCACTGAGTCTCTGAGAG 666
Qy 1175 AGGTGACAGAGGCTGACAGGCGCGGCGATGAGAGACCAAGGAGAGAGCAAACTTGAG 1234
Db 667 AGGTTCAGAGGCTGACAGGCGCGGCGATGAGAGACCAAGGAGAGAGCAAACTTGAG 726
Qy 1235 GCCAAGAGTGTGTTGCTCAAAAGTGAATGCTTCCACAGGAGTGAAGTCCCTGAGC 1294
Db 727 GCCAAGAGTGTGTTGCTCAAAAGTGAATGCTTCCACAGGAGTGAAGTCCCTGAGC 786
Qy 1295 TGCCATGTGTTGATGACAGGCGCGCTCCAGAGAAAGGCTCTGACAGACATTAAGGCTA 1354
Db 787 TGCCATGTGTTGATGACAGGCGCGCTCCAGAGAAAGGCTCTGACAGACATTAAGGCTA 846
Qy 1355 ATCCAGAAATGTTTATGTAAGACCGTATTACTCTGCGCAGGTGACGTTAACTAGATT 1414
Db 847 ATCCAGAAATGTTTATGTAAGACCGTATTACTCTGCGCAGGTGACGTTAACTAGATT 906
Qy 1415 AGATGTTGTTGAAACATCTACATCCACATTTGTTATGACAGTGTCCCAAAATTTCTGTT 1474
Db 907 AGATGTTGTTGAAACATCTACATCCACATTTGTTATGACAGTGTCCCAAAATTTCTGTT 966
Qy 1475 CTACAGACATGTTGTGTGACAGAAACTGAGACACAGGACATTTAATTTTACTTGACGCA 1534
Db 967 CTACAGACATGTTGTGTGACAGAAACTGAGACACAGGACATTTAATTTTACTTGACGCA 1026
Qy 1535 TGTGACCTCTTCTGACGTAGAGACCCGTCATCAAAAGGCTCCCTCATCATGTTCCAG 1594
Db 1027 TGTGACCTCTTCTGACGTAGAGACCCGTCATCAAAAGGCTCCCTCATCATGTTCCAG 1086
Qy 1595 TGAAGGCGCAGCATGCTTTCTTCTGAGATAGTAAACATTTCTTGAAACATATGTTT 1654
Db 1087 TGAAGGCGCAGCATGCTTTCTTCTGAGATAGTAAACATTTCTTGAAACATATGTTT 1146
Qy 1655 CACTTAATCACTACCAAAATCTGGAAGACCTGCTTACTACAGACACAGGCTGTA 1714
Db 1147 CACTTAATCACTACCAAAATCTGGAAGACCTGCTTACTACAGACACAGGCTGTA 1206
Qy 1715 GAAGCAGCAGACAGATCTTCCAGATCAGAGGAGAGCCCGAGCCTGCTTCTCTTA 1774
Db 1207 GAAGCAGCAGACAGATCTTCCAGATCAGAGGAGAGCCCGAGCCTGCTTCTCTTA 1266
Qy 1775 CACTGCGATGCTGATGATGCGTGAACATGCCCACATTTGCTTCCACATCTGTTGCA 1834
Db 1267 CACTGCGATGCTGATGATGCGTGAACATGCCCACATTTGCTTCCACATCTGTTGCA 1326
Qy 1835 CTGCTCATGATGGGCTCGCTGACATCTCCCTCAGTCCCAATTTCTAGAGGCAAGTGTCC 1894
Db 1327 CTGCTCATGATGGGCTCGCTGACATCTCCCTCAGTCCCAATTTCTAGAGGCAAGTGTCC 1385
Qy 1895 TGCAGAGGCTGTATGATGCTGCTGCTGCCAAGGACACTCTCTGACAGACCAATTTGG 1954
Db 1386 TGCAGAGGCTGTATGATGCTGCTGCTGCCAAGGACACTCTCTGACAGACCAATTTGG 1444
Qy 1955 GTTAAAGAACCTTAACAAGAGGATTTGATCTGTGCTGAGGCTCAGACCCCTTTGAT 2014
Db 1445 GTTAAAGAACCTTAACAAGAGGATTTGATCTGTGCTGAGGCTCAGACCCCTTTGAT 1504
Qy 2015 AGGCTCTGATGTCATTCATTAAGACATTCAGGCAAGATGCTCAACCTGCAATATATAC 2074
Db 1505 AGGCTCTGATGTCATTCATTAAGACATTCAGGCAAGATGCTCAACCTGCAATATATAC 1563
Qy 2075 AACCTTCTGAAATTAATATTTGCTTAATTAATTTCTTTCTTTCTTAAAGATTTG 2134
Db 1564 AA-CTTCTCTGAAATTAAT-TTTGCTTAATTAATTTCTTTCTTTCTTAAAGTA--TG 1619
Qy 2135 GCTCTGAATGATGACATTTTCTGATGTAACCTGATGATCATTTAGCCAAATGAC 2194
Db 1620 GCTCTGAATGATGACATTTTCTGATGTAACCTGATGATCATTTAGCCAAATGAC 1678
Qy 2195 TAAATTAATTAATTAATCATATATATATGTTTCTGACATAGGAGCTATGATTCAT 2254

Db 1679 TAAATTAATTAATTAATCATATATATATATATATATATATATATATATATATAT 1738
Qy 2255 TAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2314
Db 1739 TAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1794
Qy 2315 ACTTAATTTGCTTTGTTAAATAGTTCAAGTGTGATCTTGAGAGGAGATTTCTT-GGTAA 2373
Db 1795 A--TTAATTTGCTTTGTTAAATAGTTCA--GGATCTTGAGAGGAGATTTCTTGAGTAA 1850
Qy 2374 TTAATCTGACATTTGAATGCTCTCATGATTAATTAATTAATTAATTAATTAATTAAT 2433
Db 1851 TTAATCTGACATTTGAATGCTCTCATGATTAATTAATTAATTAATTAATTAATTAATTAAT 1909
Qy 2434 AGAAAAAGTATGCTGATGAGGAGGAGAAATTAATTAATTAATTAATTAATTAATTAAT 2493
Db 1910 AGAAAAAGTATGCTGATGAGGAGGAGAAATTAATTAATTAATTAATTAATTAATTAAT 1969

RESULT 9
US-10-357-930-27924
; Sequence 27924, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27924
; LENGTH: 2199
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 3, 4, 2198, 2199
; OTHER INFORMATION: n = A,T,C or G
US-10-357-930-27924

Query Match 61.4%; Score 1579.6; DB 18; Length 2199;
Best Local Similarity 97.1%; Pred. No. 0;
Matches 1748; Conservative 0; Mismatches 34; Indels 18; Gaps 13;

Qy 695 GTTTGAGAGAGTATCTCTTATTTCTGAAAGCCCGGACAGTGTGCTGCTGAC 754
Db 187 GCTTGACACAGTATCTCTTATTTCTGAAAGCCCGGACAGTGTGCTGCTGAC 246
Qy 755 CAGTGCCTCAAAACAGATCCAGAAAGAAAGTTCCAGTGTGCTGCTGCTGAC 814
Db 247 CAGTGCCTCAAAACAGATCCAGAAAGAAAGTTCCAGTGTGCTGCTGCTGAC 306
Qy 815 GCCACGGTAAACCAACGAGTACCCAGTCAAGTGGAGATTCATTAAGGCTGCTCTTA 874

Db 307 GCCACGGGTAAACACGAGTGACCCAGTCAGTGGCAGATTTCATTAAAGCTGTCTCTTA 366
QY 875 AAGTCACCAACCTCTTGATGGCCAGTGGAGGAAGATCTTTGATGATGAACCAATATC 934
Db 367 AAGTCACCAACCTCTTGATGGCCAGTGGAGGAAGATCTTTGATGATGAACCAATATC 426
QY 935 ATTGAAGAGCTTTTACTCTTTGGGCAATTATATGTCGCTCCGAATATGCTAAAGAA 994
Db 427 ATTGAAGAGCTTTTACTCTTTGGGCAATTATATGTCGCTCCGAATATGCTAAAGAA 486
QY 995 TCTGCAAAATCTCTGTGATGTTGAGACAGGTACTGGACACGAGCCACCTATGCCATA 1054
Db 487 TCTGCAAAATCTCTGTGATGTTGAGACAGGTACTGGACACGAGCCACCTATGCCATA 546
QY 1055 GCCACTGAGGTGAGTGGGGGTCTCCAGACCTGCCCCCAGCCATCACTCTGTGACAG 1114
Db 547 GCCACTGAGGTGAGTGGGGGTCTCCAGACCTGCCCCCAGCCATCACTCTGTGACAG 606
QY 1115 TGGCCAGAGGACTGTCTCAAACTGACCTTATCCTGCTGCTCACTGTGATCTTGAGAG 1174
Db 607 TGGCCAGAGGACTGTCTCAAACTGACCTTATCCTGCTGCTCACTGTGATCTTGAGAG 666
QY 1175 AGGTGAGAGGCTGTCAGGCGCCGGGAGATGAGAAACACGAGGAAGAGCAACTTGAG 1234
Db 667 AGGTGAGAGGCTGTCAGGCGCCGGGAGATGAGAAATGCTTACCCAGGGAGTGGAAATCTGCG 726
QY 1235 GCCAACAGTGTGTTTGTCTCAAAAGGTAGAAATGCTTACCCAGGGAGTGGAAATCTGCG 1294
Db 727 GCCAACAGTGTGTTTGTCTCAAAAGGTAGAAATGCTTACCCAGGGAGTGGAAATCTGCG 786
QY 1295 TGGCATGTGTTGATGTCAGACCCCTCCAGAGAAAGGTCTGAGACGGATTAACCTTA 1354
Db 787 TGGCATGTGTTGATGTCAGACCCCTCCAGAGAAAGGTCTGAGACGGATTAACCTTA 846
QY 1355 ATCCAGAAATGTTTGTGTAACCGTATCTTCTGCGCAGAGTCCACGCTTAATGAT 1414
Db 847 ATCCAGAAATGTTTGTGTAACCGTATCTTCTGCGCAGAGTCCACGCTTAATGAT 906
QY 1415 AGATGTTGTTGAACATCTACATCCACATTTGTTATGACAGTGTCCCAAAATTTGTT 1474
Db 907 AGATGTTGTTGAACATCTACATCCACATTTGTTATGACAGTGTCCCAAAATTTGTT 966
QY 1475 CTACAGCAATGTTGTGTGGCAAAAATGAGACACAGGACCTTAAATTTTACTGACCA 1534
Db 967 CTACAGCAATGTTGTGTGGCAAAAATGAGACACAGGACCTTAAATTTTACTGACCA 1026
QY 1535 TCGTACCTCTTCTGATGATGACCCGTCATCAAAAGTCCCTCTCATATGTTCCAG 1594
Db 1027 TCGTACCTCTTCTGATGATGACCCGTCATCAAAAGTCCCTCTCATATGTTCCAG 1086
QY 1595 TGAAGAGCCAGCATGCTTTCTTCTGCAATAGTAAACATTTTCTGGAAATGTTT 1654
Db 1087 TGAAGAGCCAGCATGCTTTCTTCTGCAATAGTAAACATTTTCTGGAAATGTTT 1146
QY 1655 CACTTAATCACTACCAATATCTGGAAGCTGTCTTACTCGACAGCACCGGTGACA 1714
Db 1147 CACTTAATCACTACCAATATCTGGAAGCTGTCTTACTCGACAGCACCGGTGACA 1206
QY 1715 GAAGCAGCAGACAAAGATCTTCCAGATCAGACGAGAGACCCCGAGCTCTGCTCCCTA 1774
Db 1207 GAAGCAGCAGACAAAGATCTTCCAGATCAGACGAGAGACCCCGAGCTCTGCTCCCTA 1266
QY 1775 CACTGCAATGCTGATGATGATGTCGATGATGCCCAATGAGCTTCTTCCATCTGATG 1834
Db 1267 CACTGCAATGCTGATGATGATGTCGATGATGCCCAATGAGCTTCTTCCATCTGATG 1326
QY 1835 CTCGTCATGATGAGCTGCTGATGATGTCGATGATGCCCAATGAGCTTCTTCCATCTGATG 1894
Db 1327 CTCGTCATGATGAGCTGCTGATGATGTCGATGATGCCCAATGAGCTTCTTCCATCTGATG 1385
QY 1895 TGCAGAGGCTGTCTATGTTCTCTGCTGCTGCCAAGGAGACATCTGACAGAGCAATTTTGG 1954
Db 1386 TGCAGAGGCTGTCTATGTTCTCTGCTGCTGCCAAGGAGACATCTGACAGAGCAATTTTGG 1444

QY 1955 GTAAGGACACTTACAAAGAGCATTTGATCTTGTGTGAGGCTCAGAGCCCTTTTGTAT 2014
Db 1445 GTAAGGACACTTACAAAGAGCATTTGATCTTGTGTGAGGCTCAGAGCCCTTTTGTAT 1504
QY 2015 AGGCTTCTGATGTCATTCATTAAGACATTCAAGCCAAAGATGCTCAACTGCATAATACC 2074
Db 1505 AGGCTTCTGATGTCATTCATTAAGACATTCAAGCCAAAGATGCTCAACTGCATAATACC 1563
QY 2075 AACCTTCTGATTAATATTTTGTCTTATTTATTTCTTTCTTTTCTTAAAGATG 2134
Db 1564 AA-CTTCTGATTAATTTTGTCTTATTTATTTCTTTCTTTTCTTAAAGATG-TC 1619
QY 2135 GCTGGAATGAGTSCAATTTTCATCTGAACTGATGATCATATTTAGCAATCCAG 2194
Db 1620 GCTGGAATGAGTSCAATTTTCAT- TGAATGATGATTCATTTAGCAATCCAG 1678
QY 2195 TAAATTTATTAATTAATCTATTAATTAATTAATTTTCTTCTGACATGAGCTATGAT 2254
Db 1679 TAAATTTATTAATTAATCTATTAATTAATTAATTTTCTTCTGACATGAGCTATGAT 1738
QY 2255 TAAATTAAGTGAAGTCAAAAGCTAATGCAATGTTGTGTGATTTTCAATTAACAA 2314
Db 1739 TAAATTAAGTGAAGTCAAAAGCTAATGCAATGTTGTGTGATTTTCAATTAACAA 1794
QY 2315 ACTTAATTTGCTTGTAAATTAATTAATTAATTAATTTGAGTGGATTTCTT- GGTAA 2373
Db 1795 A--TTAATTTGCTTGTAAATTAATTAATTAATTAATTTGAGTGGATTTCTTGGGTAA 1850
QY 2374 TTAATCTGACCTGAATGTCATGATTAATTAATTAATTAATTTTGAATCTTTTATGAC 2433
Db 1851 TTAATCTGACCTGAATGTCATGATTAATTAATTAATTAATTTTGAATCTTTTATGAC 1909
QY 2434 AGAAAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 2493
Db 1910 AGAAAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1969

RESULT 10
US-10-277-032-3
; Sequence 3, Application US/10277032
; Publication No. US2003087294A1
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CLO01305 DIV
; CURRENT APPLICATION NUMBER: US/10/277, 032
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984, 880
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 20966
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-277-032-3

Query Match 44.0%; Score 1130.4; DB 14; Length 20966;
Best Local Similarity 98.1%; Pred. No. 2,3e-268;
Matches 1228; Conservative 0; Mismatches 16; Indels 8; Gaps 8;

QY 1243 TGTGTTTCGTCAAAAGGTAGAAATGTCCTTACACGCGATGAGAAATCTGGCTGCATGT 1302
Db 17724 TTTGCTGTCTCCAGGATGAAATGTCCTTACACGCGATGAGAAATCTGGCTGCATGT 17783
QY 1303 GGTGTATGCGAGGCGCTCCAGAGAAAGTCTCGACAGATTAAGCTTAATCCAGAA 1362
Db 17784 GGTGTATGCGAGGCGCTCCAGAGAAAGTCTCGACAGATTAAGCTTAATCCAGAA 17843
QY 1363 TAGTTTATGAAACCGTAGTACTCTGCGCAGGTGCCAGTCTAACTAATGATGTTG 1422

Db 17844 TAGTTTAGTAAACCGTAGTACTCTGGCCAGGCGCACGCTAACTAGATAGATGTGG 17903
QY 1423 TTTGAAACATCTACATCCACCATTGTTATGACAGTGTCCCAAAATTTCTGTCTACAGC 1482
Db 17904 TTTGAAACATCTACATCCACCATTGTTATGACAGTGTCCCAAAATTTCTGTCTACAGC 17963
QY 1483 ATGTGTGTGGCGAAGAAACCTGAGACACGAGCATCTTAATTTTACTAGCAGTGTGCC 1542
Db 17964 ATGTGTGTGGCGAAGAAACCTGAGACACGAGCATCTTAATTTTACTAGCAGTGTGCC 18023
QY 1543 TC-TTCTGACGTGAGACCCGCTCATCAAAAGTCCCTCATCATGTTCAGTGAAGAG 1601
Db 18024 TCTTTCTGACGTGAGACCCGCTCATCAAAAGTCCCTCATCATGTTCAGTGAAGAG 18083
QY 1602 CCAAGCATGCTCTTCTCTGGCATAGTAAACATTTTCTTGGAAACATATGTCTTCACTTAA 1661
Db 18084 CCAAGCATGCTCTTCTCTGGCATAGTAAACATTTTCTTGGAAACATATGTCTTCACTTAA 18143
QY 1662 TCACCTACCAAAATATCTGGAAGACCTGTCTTACTGACAGACACGAGTGTACAGAAACAG 1721
Db 18144 TCACCTACCAAAATATCTGGAAGACCTGTCTTACTGACAGACACGAGTGTACAGAAACAG 18203
QY 1722 CAGACAAAGATCTTCCAGATCAGCAGGAGACCCCGAGGCTCTGCTTCTCTACACTGGC 1781
Db 18204 CAGACAAAGATCTTCCAGATCAGCAGGAGACCCCGAGGCTCTGCTTCTCTACACTGGC 18263
QY 1782 ATGCTGATGAGATCTGACATGCCCCACATGGGCTTCTTCCACATCTGGTGGACTGTCTCA 1841
Db 18264 ATGCTGATGAGATCTGACATGCCCCACATGGGCTTCTTCCACATCTGGTGGACTGTCTCA 18323
QY 1842 TGAATGGCTGCGTGCATCTCCCTCAAGTCCCAAAATTTCTAGTACCAAGTGTTCCTGACAG 1901
Db 18324 TGAATGGCTGCGTGCATCTCCCTCAAGTCCCAAAATTTCTAG-AGCCAAATGTTCCTGACAG 18382
QY 1902 GCTGTCAATGTGCTGCTGGTCCCAAGGAGACACTCTGACAGAGCATTTTGTGGTAAAGA 1961
Db 18383 GCTGTCAATGTGCTGCTGGTCCCAAGGAGACACTCTGACAGAGCATTTTGTGGTAAAGA 18441
QY 1962 AGCATTTACAAAGAGGATGATCTGTGTCTGAGGCTCAGAGGCTTGTATAGGCTTC 2021
Db 18442 AGCATTTACAAAGAGGATGATCTGTGTCTGAGGCTCAGAGGCTTGTATAGGCTTC 18501
QY 2022 TGAATGTCAATTTTGTGCTTATATATTTCTTTTCTTAAAGAAATGGCTCTGA 2081
Db 18502 TGAATGTCAATTTTGTGCTTATATATTTCTTTTCTTAAAGTAA-TCGCTCTGA 18560
QY 2082 TCTGAATTTATATTTTGTCTTATATATTTCTTTTCTTAAAGAAATGGCTCTGA 2141
Db 18561 TCTGAATTTATATTTTGTCTTATATATTTCTTTTCTTAAAGTAA-TCGCTCTGA 18619
QY 2142 ATAGATGACATTTTCCATCTGAATGACATGATCATTTAGCCAAATCAGTAATTTA 2201
Db 18620 ATAGATGACATTTTCCAT-TCGAATGACATGATCATTTAGCCAAATCAGTAATTTA 18678
QY 2202 TTTATATTTATCTATATATATATATTTTCTCTCAGACATAGAGATATGATTTATTTAA 2261
Db 18679 TTTATATTTATCTATATATATATATTTTCTCTCAGACATAGAGATATGATTTATTTAA 18738
QY 2262 AAGTGAAGTCAAAACGCTAATGCAATGTTTGTGTGATTTTCTATTAACAACCTTAAT 2321
Db 18739 AAGTGAAGTCAAAACGCTAATGCAATGTTTGTGTGATTTTCTATTAACAACCTTAAT 18798
QY 2322 TTGTCTTTTAAATTAAGTTCAAGTGAATCTTGAAGTGGAAATTTCTTGGTAAATTAATCTTG 2381
Db 18799 TTGTCTTTTAAATTAAGTTCAAGTGAATCTTGAAGTGGAAATTTCTTGGTAAATTAATCTTG 18857
QY 2382 CACTTGAATGTCTCAATATTAACATATGAAATCGCTTTGACATATCTTTAAGACAGAAAAA 2441
Db 18858 CACTTGAATGTCTCAATATTAACATATGAAATCGCTTTGACATATCTTTAAGACAGAAAAA 18917
QY 2442 GTAGCTGAGTGAAGGGGAAATTAATGAGCTTGTGACTTAAAGGAGTAGCT 2493

Db 18918 GTAGCTGAGTGAAGGGGAAATTAATGAGC-TGTGTACTTTAAGGAGTAGGT 18968
RESULT 11
US-10-681-223-3
Sequence 3, Application US/10681223
Publication No. US20040081999A1
GENERAL INFORMATION
APPLICANT: Ming-Hui WEI
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
FILE REFERENCE: CL001305 DIV-II
CURRENT APPLICATION NUMBER: US/10/681,223
PRIOR FILING DATE: 2003-10-09
PRIOR APPLICATION NUMBER: 10/277,032
PRIOR FILING DATE: 2002-10-22
PRIOR APPLICATION NUMBER: 09/984,880
PRIOR FILING DATE: 2001-10-31
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 3
LENGTH: 20966
TYPE: DNA
ORGANISM: Homo sapiens
US-10-681-223-3
Query Match 44.0%; Score 1130.4; DB 17; Length 20966;
Best Local Similarity 98.1%; Pred. No. 2.3e-268;
Matches 1228; Conservative 0; Mismatches 16; Indels 8; Gaps 8;
QY 1243 TGTGTTTCGTCMAAAGTAAATGTCTTACACGCGATGAGAAATCTGGCTGCCATGT 1302
Db 17724 TTTGCTGCTGCCAGGATGAAATGTCCTAACAGCGATGAGAAATCTGGCTGCCATGT 17783
QY 1303 GGTGATGACGACCCCTCCAGAGAAAGTCTGACAGACAGTATTAAGCTTAATCCAGAA 1362
Db 17784 GGTGATGACGACCCCTCCAGAGAAAGTCTGACAGACAGTATTAAGCTTAATCCAGAA 17843
QY 1363 TAGTTTATGTAACCGTAGTACTCTGGCCAGGTGCCACGCTTAACATGATAGATGTG 1422
Db 17844 TAGTTTATGTAACCGTAGTACTCTGGCCAGGTGCCACGCTTAACATGATAGATGTG 17903
QY 1423 TTTGAAACATCTACATCCACCATTGTTATGACAGTGTCCCAAAATTTCTGTCTACAGC 1482
Db 17904 TTTGAAACATCTACATCCACCATTGTTATGACAGTGTCCCAAAATTTCTGTCTACAGC 17963
QY 1483 ATGTGTGTGGCGAAGAAACCTGAGACACGAGCATCTTAATTTTACTAGCAGTGTGCC 1542
Db 17964 ATGTGTGTGGCGAAGAAACCTGAGACACGAGCATCTTAATTTTACTAGCAGTGTGCC 18023
QY 1543 TC-TTCTGACGTGAGACCCGCTCATCAAAAGTCCCTCATCATGTTCAGTGAAGAG 1601
Db 18024 TCTTTCTGACGTGAGACCCGCTCATCAAAAGTCCCTCATCATGTTCAGTGAAGAG 18083
QY 1602 CCAAGCATGCTCTTCTCTGGCATAGTAAACATTTTCTTGGAAACATATGTCTTCACTTAA 1661
Db 18084 CCAAGCATGCTCTTCTCTGGCATAGTAAACATTTTCTTGGAAACATATGTCTTCACTTAA 18143
QY 1662 TCACCTACCAAAATATCTGGAAGACCTGTCTTACTGACAGACACGAGTGTACAGAAACAG 1721
Db 18144 TCACCTACCAAAATATCTGGAAGACCTGTCTTACTGACAGACACGAGTGTACAGAAACAG 18203
QY 1722 CAGACAAAGATCTTCCAGATCAGCAGGAGACCCCGAGGCTCTGCTTCTCTACACTGGC 1781
Db 18204 CAGACAAAGATCTTCCAGATCAGCAGGAGACCCCGAGGCTCTGCTTCTCTACACTGGC 18263
QY 1782 ATGCTGATGAGATCTGACATGCCCCACATGGGCTTCTTCCACATCTGGTGGACTGTCTCA 1841
Db 18264 ATGCTGATGAGATCTGACATGCCCCACATGGGCTTCTTCCACATCTGGTGGACTGTCTCA 18323
QY 1842 TGAATGGCTGCGTGCATCTCCCTCAAGTCCCAAAATTTCTAGTACCAAGTGTTCCTGACAG 1901

Db 18324 TGATGGGCGTGGCTGATCTCCCTCAGTCCCAATTCTTGA-AGCCAAGTGTCTTCGACAG 18382
QY 1902 GCTGCTCATGTGCTCTGCGCTGCCAAGGGACACTTCGACAGGCCATTTTGGGTAAAGA 1961
Db 18383 GCTGCTCATGTGCTCTGCGCTGCCAAGGGACACTTCGACAGGCCATTTTGGGTAAAGA 18441
QY 1962 ACACCTTAACAAGAGGAGCATGTGCTGTGCTGAGGCTCAGAGCCCTTTTATAGGCTTC 2021
Db 18442 ACACCTTAACAAGAGGAGCATGTGCTGTGCTGAGGCTCAGAGCCCTTTTATAGGCTTC 18501
QY 2022 TGATGCTCATTAATAAAGACATTCAGAGCCAGATGCTCCAACTGCAAAATATACCACTTC 2081
Db 18502 TGA-GTCAATATATATAAGACATTCAGAGCCAGATGCTCCAACTGCAAAATATACCACTTC 18560
QY 2082 TCTGAATATATATTTGCTATTTATTTATTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTG 2141
Db 18561 TCTGAATATATATTTGCTATTTATTTATTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTG 18619
QY 2142 ATAGAAATGCAATTTTCCATCTGAACTGAACTGAACTGATTCATTTAGCCAACTCAAGTAATTA 2201
Db 18620 ATAGAAATGCAATTTTCCAT-TGAATGTAATGATTCATTTAGCCAACTCAAGTAATTA 18678
QY 2202 TTTATATATATCTATTAACATAATATGTTTCTGACGATAGGAGCTATGATTCATTAATTA 2261
Db 18679 TTTATATATATCTATTAACATAATATGTTTCTGACGATAGGAGCTATGATTCATTAATTA 18738
QY 2262 AAGTGAATGCAAAAGCGTAATGCAATGTTTGTGTATTTTCTTTTCTTTTCTTTTCTTTTCTTTT 2321
Db 18739 AAGTGAATGCAAAAGCGTAATGCAATGTTTGTGTATTTTCTTTTCTTTTCTTTTCTTTTCTTTT 18798
QY 2322 TTGCTTGTATTAATTAAGTCAAGTGAATGTTTCTTTGTTTCTTTGTTTCTTTGTTTCTTTGTTT 2381
Db 18799 TTGCTTGTATTAATTAAGTCAAGTGAATGTTTCTTTGTTTCTTTGTTTCTTTGTTTCTTTGTTT 18857
QY 2382 CACTGGAATGCTCATGATTAACATATGAATTCGCTTTGACATATCTTTTACAGAAAAA 2441
Db 18858 CACTGGAATGCTCATGATTAACATATGAATTCGCTTTGACATATCTTTTACAGAAAAA 18917
QY 2442 GTAGCTGAGTGAAGGGGAAATTAAGAGCTTGTGTGACCTTACAGAGTACCT 2493
Db 18918 GTAGCTGAGTGAAGGGGAAATTAAGAGC-TGTGTGACCTTACAGAGTACCT 18968

RESULT 12
US-10-264-237-104
; Sequence 104, Application US/10264237
; Publication No. US2004009491A1
; GENERAL INFORMATION:
; APPLICANT: Bifse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P131PI
; CURRENT APPLICATION NUMBER: US/10/264,237
; PRIOR FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: Patentin Ver. 3.1
; SEQ ID NO 104
; LENGTH: 1579
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-264-237-104

Query Match 40.3%; Score 1035.4; DB 17; Length 1579;
Best Local Similarity 98.8%; Pred. No. 2e-245;
Matches 1127; Conservative 0; Mismatches 6; Indels 8; Gaps 8;

QY 1353 TAATCAGATATGTTTACTGTAACCGTATGTTACTTGCCAGAGTCCAGCTCTTAATGA 1412
Db 1 TAATCAGATATGTTTACTGTAACCGTATGTTACTTGCCAGAGTCCAGCTCTTAATGA 59

QY 1413 TTATATGTTGTTGAAACATCTACATCCACCATTTGTTATGAGTGTCCAAATTTCTG 1472
Db 60 TTATATGTTGTTGAAACATCTACATCCACCATTTGTTATGAGTGTCCAAATTTCTG 119
QY 1473 TTCTACAGCATGTTGTGTGGCAAAAATCTGAGAACAGGACATCTTAATTTTACTTCAGC 1532
Db 120 TTCTACAGCATGTTGTGTGGCAAAAATCTGAGAACAGGACATCTTAATTTTACTTCAGC 179
QY 1533 CATGACCTCTTCTGACATGATGAGACCGGTATGACAAAGGTCCCTCATCATGTTCC 1592
Db 180 CATGACCTCTTCTGACATGATGAGACCGGTATGACAAAGGTCCCTCATCATGTTCC 239
QY 1593 AGTGAAGGCGACGATGCTTTCTTCTGAGATGTAACATTTCTTTGAAACATATGT 1652
Db 240 AGTGAAGGCGACGATGCTTTCTTCTGAGATGTAACATTTCTTTGAAACATATGT 299
QY 1653 TTCACTTAATGACATCAAAATCTGGAAGACCTGTCTTAATGACAGACAGAGTGA 1712
Db 300 TTCACTTAATGACATCAAAATCTGGAAGACCTGTCTTAATGACAGACAGAGTGA 359
QY 1713 CAGAAAGCAGACAAAGATCTTCAGATCAGAGGAGACCCCGAGCTCTGCTTCC 1772
Db 360 CAGAAAGCAGACAAAGATCTTCAGATCAGAGGAGACCCCGAGCTCTGCTTCC 419
QY 1773 TACACTGGCATGCTGATGATGATCTGACATGCCACATTTGCTTTCCACATCTGTTG 1832
Db 420 TACACTGGCATGCTGATGATGATGATGCCACATTTGCTTTCCACATCTGTTG 479
QY 1833 CACTGTCATGATGAGGCTCGCTGATCTCCCTCAGTCCAAATCTTATGACCAAGTGT 1892
Db 480 CACTGTCATGATGAGGCTCGCTGATCTCCCTCAGTCCAAATCTTATG-AGCCAAAGTGT 538
QY 1893 CCTGCAAGGCTGTCTATGTTGTCCTGCTGCCAAGGACACTCCTCAGAGCCATTTT 1952
Db 539 CCTGCAAGGCTGTCTATGTTGTCCTGCTGCCAAGGACACTCCTCAGAGCCATTTT 597
QY 1953 GGGTAAAGAACATTTAACAAGCAATGATCTTTGTGTCTGAGGCTCAAGGCCCTTTTG 2012
Db 598 GGGTAAAGAACATTTAACAAGCAATGATCTTTGTGTCTGAGGCTCAAGGCCCTTTTG 657
QY 2013 ATAGGCTTCTGATGCTATTAAGAATTAAGACATTCAGAGGCTCCAACTGCAAAATATA 2072
Db 658 ATAGGCTTCTGA-GTCAATATATAAGACATTCAGAGGACATGCTCAACTGCAAAATATA 716
QY 2073 CCAACCTTCTGATTAATATATTTTGTATTTATTTATTTCTTTCTTTTCTTTTCTTTTCTTTT 2132
Db 717 CCAACCTTCTGATTAATATATTTTGTATTTATTTATTTCTTTCTTTTCTTTTCTTTTCTTTT 775
QY 2133 TGCTCTGAATGAGATGACATTTTCCATCTGAACTGAGATGACATATCTTAAGCAATCC 2192
Db 776 TGCTCTGAATGAGATGACATTTTCCAT-TGAATGAGATGACATATCTTAAGCAATCC 834
QY 2193 AGTAATTTATTTATTAATCTATTAACATAATATGTTTCTCAGACATAGAGATGATTC 2252
Db 835 AGTAATTTATTTATTAATCTATTAACATAATATGTTTCTCAGACATAGAGATGATTC 894
QY 2253 ATTAATTAAGAGGAGTCAAAAGCGTAATGAAATGAAATGTTTGTGTATTTTCTATTAAC 2312
Db 895 ATTAATTAAGAGGAGTCAAAAGCGTAATGAAATGAAATGTTTGTGTATTTTCTATTAAC 954
QY 2313 AAACTTAATTTGTCTGTTAAATTAAGTCAAGTGAATCTTGAAGGAGATTTCTTGTTA 2372
Db 955 AAACTTAATTTGTCTGTTAAATTAAGTCAAGTGAATCTTGAAGGAGATTTCTTGTTA 1013
QY 2373 ATTAATCTGACATGTAATGCTCATATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 2432
Db 1014 ATTAATCTGACATGTAATGCTCATATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1073
QY 2433 CAGAAAAAGTATGATGAGGAGGAGAAATTTATGAGCTTGTGTGACCTTACAGAGTAC 2492
Db 1074 CAGAAAAAGTATGATGAGGAGGAGAAATTTATGAGC-TGTGTGACCTTACAGAGTAC 1132
QY 2493 T 2493

Db 1133 T 1133

RESULT 13
US-10-357-930-33519
; Sequence 33519, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33519
; LENGTH: 454
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-357-930-33519

Query Match 16.0%; Score 411.4; DB 18; Length 454;
Best Local Similarity 98.6%; Pred. No. 3.1e-91;
Matches 415; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 1103 CCTGTGTACCAAGTGGCCAGAGACCTGCTCAAACTGACTTATCTGCTGCTCACTGTG 1162
Db 34 CCAGAGTACCAAGTGGCCAGAGACCTGCTCAAACTGACTTATCTGCTGCTCACTGTG 93
QY 1163 AGTCTGAGAGAGAGTGGCCAGAGCTGCGAGGCGGGGCATGAGAAACAGGAGAA 1222
Db 94 AGTCTGAGAGAGAGTGGCCAGAGCTGCGAGGCGGGGCATGAGAAACAGGAGAA 153
QY 1223 GCAGAACTTGAGGCCAACAAGTGTGTTTCTGCAAAAGGTAGAAAATGCTCTACACGCGATG 1282
Db 154 GCAGAACTTGAGGCCAACAAGTGTGTTTCTGCAAAAGGTAGAAAATGCTCTACACGCGATG 213
QY 1283 GAGAAATCTGGCTGCGCATGTGTTGATGCCAGCCCTCCAGAGAAAAGTCTCTGACAGA 1342
Db 214 GAGAAATCTGGCTGCGCATGTGTTGATGCCAGCCCTCCAGAGAAAAGTCTCTGACAGA 273
QY 1343 GTATTAAAGCTTAAATCCAGAAATAGTTTAAAGAACCGGATTAATCTGCGCAAGGTCACAG 1402
Db 274 GTATTAAAGCTTAAATCCAGAAATAGTTTAAAGAACCGGATTAATCTGCGCAAGGTCACAG 333
QY 1403 TCTAAGTATGATGTGTTTGAACAATCTACATCCACATTTGTTATGCAAGTGTCC 1462
Db 334 TCTAAGTATGATGTGTTTGAACAATCTACATCCACATTTGTTATGCAAGTGTCC 393
QY 1463 CAATTTCTGTTCTACAGCATGTTGTGCGCAGAAAACCTGAGACCAAGCATCTTAAT 1522
Db 394 CAATTTCTGTTCTACAGCATGTTGTGCGCAGAAAACCTGAGACCAAGCATCTTAAT 453
QY 1523 T 1523

Db 454 T 454

RESULT 14
US-10-357-930-40840
; Sequence 40840, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 40840
; LENGTH: 454
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-357-930-40840

Query Match 16.0%; Score 411.4; DB 18; Length 454;
Best Local Similarity 98.6%; Pred. No. 3.1e-91;
Matches 415; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 1103 CCTGTGTACCAAGTGGCCAGAGACCTGCTCAAACTGACTTATCTGCTGCTCACTGTG 1162
Db 34 CCAGAGTACCAAGTGGCCAGAGACCTGCTCAAACTGACTTATCTGCTGCTCACTGTG 93
QY 1163 AGTCTGAGAGAGAGTGGCCAGAGCTGCGAGGCGGGGCATGAGAAACAGGAGAA 1222
Db 94 AGTCTGAGAGAGAGTGGCCAGAGCTGCGAGGCGGGGCATGAGAAACAGGAGAA 153
QY 1223 GCAGAACTTGAGGCCAACAAGTGTGTTTCTGCAAAAGGTAGAAAATGCTCTACACGCGATG 1282
Db 154 GCAGAACTTGAGGCCAACAAGTGTGTTTCTGCAAAAGGTAGAAAATGCTCTACACGCGATG 213
QY 1283 GAGAAATCTGGCTGCGCATGTGTTGATGCCAGCCCTCCAGAGAAAAGTCTCTGACAGA 1342
Db 214 GAGAAATCTGGCTGCGCATGTGTTGATGCCAGCCCTCCAGAGAAAAGTCTCTGACAGA 273
QY 1343 GTATTAAAGCTTAAATCCAGAAATAGTTTAAAGAACCGGATTAATCTGCGCAAGGTCACAG 1402
Db 274 GTATTAAAGCTTAAATCCAGAAATAGTTTAAAGAACCGGATTAATCTGCGCAAGGTCACAG 333
QY 1403 TCTAAGTATGATGTGTTTGAACAATCTACATCCACATTTGTTATGCAAGTGTCC 1462
Db 334 TCTAAGTATGATGTGTTTGAACAATCTACATCCACATTTGTTATGCAAGTGTCC 393
QY 1463 CAATTTCTGTTCTACAGCATGTTGTGCGCAGAAAACCTGAGACCAAGCATCTTAAT 1522
Db 394 CAATTTCTGTTCTACAGCATGTTGTGCGCAGAAAACCTGAGACCAAGCATCTTAAT 453
QY 1523 T 1523

Db 454 T 454

Db 454 T 454

Search completed: February 28, 2005, 22:36:20
Job time : 1440 secs

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RESULT 15
US-10-357-930-42442
; Sequence 42442, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42442
; LENGTH: 454
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-357-930-42442
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Query Match 16.0%; Score 411.4; DB 18; Length 454;
Best Local Similarity 98.6%; Pred. No. 3.1e-91;
Matches 415; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1103 CCTGTGTACCAAGGCGCAGAGACCTGCTCAAACTTATCTGCTGCTCACTGTG 1162
Db 34 CCGAGGTACCAAGGCGCAGAGACCTGCTCAAACTTATCTGCTGCTCACTGTG 93
QY 1163 AGTCTGAGAGAGGTTGCAAGAGCTGCAAGGCGCGGGGCATGAGAGAACCAAGGAGAA 1222
Db 94 AGTCTGAGAGAGGTTGCAAGAGCTGCAAGGCGCGGGGCATGAGAGAACCAAGGAGAA 153
QY 1223 GCAGAACTTGAAGGCGCAACGTGTGTTTCTGCAAAAAGTGAAGATGCTTACCAAGCGGATG 1282
Db 154 GCAGAACTTGAAGGCGCAACGTGTGTTTCTGCAAAAAGTGAAGATGCTTACCAAGCGGATG 213
QY 1283 GAGAACTCTGCGCTGCGCATGTGTGATGCAAGCCCTCCAGAGAAAAGTCTGCGAGACA 1342
Db 214 GAGAACTCTGCGCTGCGCATGTGTGATGCAAGCCCTCCAGAGAAAAGTCTGCGAGACG 273
QY 1343 GTATTAGGCTTAATCCGAATATGTTTAAAGTGAACCGTAAGTACTCTGCGCAAGTGCACG 1402
Db 274 GTATTAGGCTTAATCCGAATATGTTTAAAGTGAACCGTAAGTACTCTGCGCAAGTGCACG 333
QY 1403 TCTAAGTATGATGTTGTTGTTGAAACATCTACATCCACATTTGTTATGAGAGTTCC 1462
Db 334 TCTAAGTATGATGTTGTTGTTGAAACATCTACATCCACATTTGTTATGAGAGTTCC 393
QY 1463 CAAATTTCTGTTCTACCAAGCATGTTGTGTGCGAGAAAACCTGAGACCAAGCATCTTAAT 1522
Db 394 CAAATTTCTGTTCTACCAAGCATGTTGTGTGCGAGAAAACCTGAGACCAAGCATCTTAAT 453
QY 1523 T 1523
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[illegible]

QY	1501	CTGAGACCGAGGACCTTTAATTTTACCTTGAGCCATGTAACCCCTTCTGACTGATGGAGCC	1560
Db	1501	CTGGAGACCGAGGACCTTTAATTTTACCTTGAGCCATGTAACCCCTTCTGACTGATGGAGCC	1560
QY	1561	CGTCATCACAAAGGTCCTCTCATCATGTTCCATGAGAGGCCAGATGCTTCTTCC	1620
Db	1561	CGTCATCACAAAGGTCCTCTCATCATGTTCCATGAGAGGCCAGATGCTTCTTCC	1620
QY	1621	TGGCATAGTAAACATTTTCTTGGAACATATGTTTCACTTAATCATCAACAAATATCTGGA	1680
Db	1621	TGGCATAGTAAACATTTTCTTGGAACATATGTTTCACTTAATCATCAACAAATATCTGGA	1680
QY	1681	AAGCCGTCTTACTGACACAGCACAGGTGTACAGAAAGCAGACGACAAATCTTCAGAT	1740
Db	1681	AAGCCGTCTTACTGACACAGCACAGGTGTACAGAAAGCAGACGACAAATCTTCAGAT	1740
QY	1741	CAGCAGGAGACCCCGAGCCCTCTCTCTCTCACTAGCGGACATGCTGATGGAATGCTGAC	1800
Db	1741	CAGCAGGAGACCCCGAGCCCTCTCTCTCTCACTAGCGGACATGCTGATGGAATGCTGAC	1800
QY	1801	ATGCCCAATTGGCTTCTTCCATCTGGTTGCACTGTGTACATGATGGGCTGCTGCATCT	1860
Db	1801	ATGCCCAATTGGCTTCTTCCATCTGGTTGCACTGTGTACATGATGGGCTGCTGCATCT	1860
QY	1861	CCCTCAGTCCCAAAATTTAGTAGGCAAGTGTCTCTGACAGAGCGTGTCTATGTGTCCTGGC	1920
Db	1861	CCCTCAGTCCCAAAATTTAGTAGGCAAGTGTCTCTGACAGAGCGTGTCTATGTGTCCTGGC	1920
QY	1921	TGCCAAGGGAAGCTCTCTGACAGCCATTTTGGGTAAAGAACACTTACAAAGAGGAT	1980
Db	1921	TGCCAAGGGAAGCTCTCTGACAGCCATTTTGGGTAAAGAACACTTACAAAGAGGAT	1980
QY	1981	TGATCTGTGTCTAGAGCTCAGAGCCCTTTTGATAGGCTCTGATGTCAATTCATTAAGAC	2040
Db	1981	TGATCTGTGTCTAGAGCTCAGAGCCCTTTTGATAGGCTCTGATGTCAATTCATTAAGAC	2040
QY	2041	ATTCAAGCCAAAGATGCTCAACTGCAAAATATACCAACTTCTCGAATTAATATTTGCTT	2100
Db	2041	ATTCAAGCCAAAGATGCTCAACTGCAAAATATACCAACTTCTCGAATTAATATTTGCTT	2100
QY	2101	ATTATATTTCTTTCTTTCTTTTCTTAAAGAAATGGCTGTGAATAGAATGCAATTTTCCA	2160
Db	2101	ATTATATTTCTTTCTTTCTTTTCTTAAAGAAATGGCTGTGAATAGAATGCAATTTTCCA	2160
QY	2161	TCTGAACCTGATCATATCATTTAGCCAAATCCAGTAATTTATTAATTAATCTATACAT	2220
Db	2161	TCTGAACCTGATCATATCATTTAGCCAAATCCAGTAATTTATTAATTAATCTATACAT	2220
QY	2221	AATATCTTCTCTCAGATATGAGACTATGATTCATTAATTAAGATGAGTCAAAACGCTA	2280
Db	2221	AATATCTTCTCTCAGATATGAGACTATGATTCATTAATTAAGATGAGTCAAAACGCTA	2280
QY	2281	AATGCAATTTGTTGTGATTTTCACTACCAAACTTAATTTGCTGTGTAATTAAGTT	2340
Db	2281	AATGCAATTTGTTGTGATTTTCACTACCAAACTTAATTTGCTGTGTAATTAAGTT	2340
QY	2341	CAGAGGATCTTGAGATGGGATTTCTTGTAATTAATCTTGCACTGGAATGTCTCATGAT	2400
Db	2341	CAGAGGATCTTGAGATGGGATTTCTTGTAATTAATCTTGCACTGGAATGTCTCATGAT	2400
QY	2401	TACATATGAAATCGCTTTGACATATCTTTAGCAGAAAAAGTATCTAGAGAGGGGAA	2460
Db	2401	TACATATGAAATCGCTTTGACATATCTTTAGCAGAAAAAGTATCTAGAGAGGGGAA	2460
QY	2461	ATTATAGAGCTTGTGTGACTTTAGGAGTACGTGTCTTATACATACTCAAGCCGTG	2520
Db	2461	ATTATAGAGCTTGTGTGACTTTAGGAGTACGTGTCTTATACATACTCAAGCCGTG	2520
QY	2521	AAGCCTTGCATGTCTCTGAGGCTGCACTAAAGAGAGGGGCTTTTGCACCC	2571
Db	2521	AAGCCTTGCATGTCTCTGAGGCTGCACTAAAGAGAGGGGCTTTTGCACCC	2571

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RESULT 2
US-10-277-032-1
; Sequence 1, Application US/10277032
; Patent No. 6664087
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001305 DIV
; CURRENT APPLICATION NUMBER: US/10/277,032
; PRIOR FILING DATE: 2002-10-22
; PRIOR APPLICATION NUMBER: 09/984,880
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2571
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-277-032-1

Query Match      100.0%; Score 2571; DB 4; Length 2571;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2571; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CGAGGCGGAGGCGGCGCTGCTGAGGCGCCCATGACCTTTCGCCCGCGGCTCTGCGCGG 60
DB      1 CGAGGCGGAGGCGGCGCTGCTGAGGCGCCCATGACCTTTCGCCCGCGGCTCTGCGCGG 60

QY      61 GCCACTGTCCGGGGCGGCTGCTCGGGCGGCGCGGGGTCTGGGCTGAGGGCATGAGTCCGGC 120
DB      61 GCCACTGTCCGGGGCGGCTGCTCGGGCGGCGCGGGGTCTGGGCGGCGCATGAGGCTCCGC 120

QY      121 GTGCCGCTTGTCTGCTGAGCTTCCGCACTGCACTCTGCTCACTTTCGCTTCCGAGCGCGCA 180
DB      121 GTGCCGCTTGTCTGCTGAGCTTCCGCACTGCACTCTGCTCACTTTCGCTTCCGAGCGCGCA 180

QY      181 CGGCGCGGCGGAGCGAGCGCGCGCGCGCGCGCGCTGTTGGGGCGCGCGCA 240
DB      181 CGGCGCGGCGGAGCGAGCGCGCGCGCGCGCGCGCTGTTGGGGCGCGCGCA 240

QY      241 GCGCACTACTCTGCTGCTGCGTCCGCTGACCCCGGAGCGCGGCGCGCGCGCGCGCGCG 300
DB      241 GCGCACTACTCTGCTGCTGCGTCCGCTGACCCCGGAGCGCGGCGCGCGCGCGCGCGCG 300

QY      301 GCGCGCGGCGGCTGCAACGAGCGCTGCTGCAACGAGCTGCGCGCGCGCGCGCGCGCG 360
DB      301 GCGCGCGGCGGCTGCAACGAGCGCTGCTGCAACGAGCTGCGCGCGCGCGCGCGCGCG 360

QY      361 CGAGCTGCTCAGAGCTGCTGCTGCTAATGCGCGGCGGCGAGCGCGCGCGCGCGCAAGAG 420
DB      361 CGAGCTGCTCAGAGCTGCTGCTGCTAATGCGCGGCGGCGAGCGCGCGCGCGCGCAAGAG 420

QY      421 CTTCCTGCTGCGGAGCGCGCGCTGATGACCTTGAACCGCGGCAAGCGTGTCTGAGCTGCT 480
DB      421 CTTCCTGCTGCGGAGCGCGCGCTGATGACCTTGAACCGCGGCAAGCGTGTCTGAGCTGCT 480

QY      481 GGGCGGCTGCGAGAGGAGCAACGCGCGCGCACTTGGGCGAGTTGAGGCGCGAGCGCGCGG 540
DB      481 GGGCGGCTGCGAGAGGAGCAACGCGCGCGCACTTGGGCGAGTTGAGGCGCGAGCGCGCGG 540

QY      541 CGAGCTGTGCGAGCGCTCTGAGGAGGTGCAAGAGCGAGCGGCGGCTGAGGCTGAGGCTGCGC 600
DB      541 CGAGCTGTGCGAGCGCTCTGAGGAGGTGCAAGAGCGAGCGGCGGCTGAGGCTGAGGCTGCGC 600

QY      601 ACAGGTGTGCTCCGAGCGCGCGCGCGCGCGCGCTGCTGCACTGCGAGTTCGCAATTC 660
DB      601 ACAGGTGTGCTCCGAGCGCGCGCGCGCGCGCGCTGCTGCACTGCGAGTTCGCAATTC 660

QY      661 CGTGTCTTCCGAGCGCGAGAGCGCGCGCGCGCGTGTGAGAGGAGTACCTCTTAT 720
DB      661 CGTGTCTTCCGAGCGCGAGAGCGCGCGCGCGCGTGTGAGAGGAGTACCTCTTAT 720
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DB      661 CGTGTCTTCCGAGCGCGAGAGCGCGCGCGCGCGTGTGAGAGGAGTACCTCTTAT 720
QY      721 TCCTGAAGCCCGGCGAGTGTGCTGAGCTGCGACGATGCCAAACAGATCCAGAAAG 780
DB      721 TCCTGAAGCCCGGCGAGTGTGCTGAGCTGCGACGATGCCAAACAGATCCAGAAAG 780

QY      781 AAAGTTCCAGGTTGTTGCACTGAGAGACTGATGCGCGGGAACCAACGCGTGACCA 840
DB      781 AAAGTTCCAGGTTGTTGCACTGAGAGACTGATGCGCGGGAACCAACGCGTGACCA 840

QY      841 GTCAGTGCGAGATTCACTTAAGCGTCTCTTAAAGTCAACACCCCTTTCATGAGCGCA 900
DB      841 GTCAGTGCGAGATTCACTTAAGCGTCTCTTAAAGTCAACACCCCTTTCATGAGCGCA 900

QY      901 GTGAGAGAGATCTTGAATGATGATACCAACTATCATTAGAAGCTTTTACTCTTTGGG 960
DB      901 GTGAGAGAGATCTTGAATGATGATACCAACTATCATTAGAAGCTTTTACTCTTTGGG 960

QY      961 CAATTATATTGTGGCCCGGAAATAGCTAAAGATCGCAATCTCTGTGATTGTAGA 1020
DB      961 CAATTATATTGTGGCCCGGAAATAGCTAAAGATCGCAATCTCTGTGATTGTAGA 1020

QY      1021 CAGGTACTGCGACAGACCGGCGCACTATGCGCATAGCCACTGAGGTAGTGGGGTCTCCA 1080
DB      1021 CAGGTACTGCGACAGACCGGCGCACTATGCGCATAGCCACTGAGGTAGTGGGGTCTCCA 1080

QY      1081 GCACTGCGCGCGCGCGCATCACCTGTGTACAGTGGCGCAGAGACCTGCTCAACCTGA 1140
DB      1081 GCACTGCGCGCGCGCGCATCACCTGTGTACAGTGGCGCAGAGACCTGCTCAACCTGA 1140

QY      1141 CCTTATCTGCTGCTACTGATGATGCTGAGAGAGAGTTGCGAGAGCTGCGAGGCGGG 1200
DB      1141 CCTTATCTGCTGCTACTGATGATGCTGAGAGAGAGTTGCGAGAGCTGCGAGGCGGG 1200

QY      1201 CATGAGAGAGACCGAGGAGAGAGCAAGTGAAGCGCAACAGTGTCTTCTCAAAAGT 1260
DB      1201 CATGAGAGAGACCGAGGAGAGAGAGCAAGTGAAGCGCAACAGTGTCTTCTCAAAAGT 1260

QY      1261 AGAATGTCTTACACGCGGATGAGAGATCTGCTGCTCAATGTGTGATGCCAGCCCTC 1320
DB      1261 AGAATGTCTTACACGCGGATGAGAGATCTGCTGCTCAATGTGTGATGCCAGCCCTC 1320

QY      1321 CAGAGAAAGGTCTGTCAGACGATATTAGCCCTAACCAAGTATTAGTGAACCGTA 1380
DB      1321 CAGAGAAAGGTCTGTCAGACGATATTAGCCCTAACCAAGTATTAGTGAACCGTA 1380

QY      1381 GTTACTCTGCGCAGGTGCCAGCTCTAATACTAGATTGTTGAAACATCTACATCC 1440
DB      1381 GTTACTCTGCGCAGGTGCCAGCTCTAATACTAGATTGTTGAAACATCTACATCC 1440

QY      1441 ACCATTGTTATGCAAGTGTCCCAAAATTTCTGTCTTCAAGCAAGCTGTGTGCGCAAAA 1500
DB      1441 ACCATTGTTATGCAAGTGTCCCAAAATTTCTGTCTTCAAGCAAGCTGTGTGCGCAAAA 1500

QY      1501 CTGGAAGACAGGATCTTAATTTTACTGAGCAATGTCCTCTCTGACTGATGAGAAC 1560
DB      1501 CTGGAAGACAGGATCTTAATTTTACTGAGCAATGTCCTCTCTGACTGATGAGAAC 1560

QY      1561 CGTCAATCAAAAGGTCCCTCTCATCATGTTCCAGTGAAGGCGCAGGAGTTGCTTTC 1620
DB      1561 CGTCAATCAAAAGGTCCCTCTCATCATGTTCCAGTGAAGGCGCAGGAGTTGCTTTC 1620

QY      1621 TGGCATAGTAACATTTTCTTGAACATATGTTTCACTTAATCACTAACAAATATCTGGA 1680
DB      1621 TGGCATAGTAACATTTTCTTGAACATATGTTTCACTTAATCACTAACAAATATCTGGA 1680

QY      1681 AGACCTGTCTTACTGACAGACCAAGGTGTACAGAGAGAGAGCAAGATCTTCCAGAT 1740
DB      1681 AGACCTGTCTTACTGACAGACCAAGGTGTACAGAGAGAGAGCAAGATCTTCCAGAT 1740

QY      1741 CAGCAGGAGAGACCCCGAGACCTCTGCTTCTCTCACTGCGAGTGTGATGAGTGTGAC 1800
DB      1741 CAGCAGGAGAGACCCCGAGACCTCTGCTTCTCTCACTGCGAGTGTGATGAGTGTGAC 1800
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QY 1801 ATGCCCATTTGGCTTCTTCCACATCTGTTGCACTGTCATGATGAGGCTGCTGCATCT 1860
Db 1801 ATGCCCATTTGGCTTCTTCCACATCTGTTGCACTGTCATGATGAGGCTGCTGCATCT 1860
QY 1861 CCTCAGTCCCAATTTCTAGTAGGCAAGTGTCTGAGAGAGGCTGTATGATGCTGAGC 1920
Db 1861 CCTCAGTCCCAATTTCTAGTAGGCAAGTGTCTGAGAGAGGCTGTATGATGCTGAGC 1920
QY 1921 TGCCCAAGGACATCTCTGAGAGCCATTTTGGGTAAGAAACACTTACAAGAGGCAT 1980
Db 1921 TGCCCAAGGACATCTCTGAGAGCCATTTTGGGTAAGAAACACTTACAAGAGGCAT 1980
QY 1981 TGAATCTGTGTGAGGCTCAGAGCCCTTTTGAATAGCTCTGATGTCATTTCAATTAAGAC 2040
Db 1981 TGAATCTGTGTGAGGCTCAGAGCCCTTTTGAATAGCTCTGATGTCATTTCAATTAAGAC 2040
QY 2041 ATTBAAGCCAAAGATGCTCCAACTGCAAAATATACCAACCTTCTGTAATTAATTTTGCTT 2100
Db 2041 ATTBAAGCCAAAGATGCTCCAACTGCAAAATATACCAACCTTCTGTAATTAATTTTGCTT 2100
QY 2101 ATTATATTTCTTTCTTTCTTTTCTTAAAGAAATGGCTCTGAATAGAAATGCAATTTTCCA 2160
Db 2101 ATTATATTTCTTTCTTTCTTTTCTTAAAGAAATGGCTCTGAATAGAAATGCAATTTTCCA 2160
QY 2161 TCTGAATGATGATCATATCATTTAGCCAAATCCAGTAATTAATTAATTAATCAT 2220
Db 2161 TCTGAATGATGATCATATCATTTAGCCAAATCCAGTAATTAATTAATTAATCAT 2220
QY 2221 AATATGTTTCTCAGCATAGAGAGCTATGATTCATTAATTAAGAGAGTCAAAAGCTTA 2280
Db 2221 AATATGTTTCTCAGCATAGAGAGCTATGATTCATTAATTAAGAGAGTCAAAAGCTTA 2280
QY 2281 AATGCAATGTTTGTGTGATTTTTCATTCACAACTTAATTTGCTTTTAAATAGTT 2340
Db 2281 AATGCAATGTTTGTGTGATTTTTCATTCACAACTTAATTTGCTTTTAAATAGTT 2340
QY 2341 CAAATGATGTTTGTGTGATTTTTCATTCACAACTTAATTTGCTTTTAAATAGTT 2400
Db 2341 CAAATGATGTTTGTGTGATTTTTCATTCACAACTTAATTTGCTTTTAAATAGTT 2400
QY 2401 TACATATGAATATGCTTTTACATATCTTTTACAGAAAAAAGTAGTGAAGAGGAGAA 2460
Db 2401 TACATATGAATATGCTTTTACATATCTTTTACAGAAAAAAGTAGTGAAGAGGAGAA 2460
QY 2461 ATTATAGAGCTTGTGTGATTTTACAGAGTAGTGTCTTATACATATCTCAAGCCCTG 2520
Db 2461 ATTATAGAGCTTGTGTGATTTTACAGAGTAGTGTCTTATACATATCTCAAGCCCTG 2520
QY 2521 AAGCCTTGATGCTCTGAGCGCTCGCATTAAGAGAGGAGGCTTTTGACCC 2571
Db 2521 AAGCCTTGATGCTCTGAGCGCTCGCATTAAGAGAGGAGGCTTTTGACCC 2571

RESULT 3
US-09-984-880-3
; Sequence 3, Application US/09984880
; Patent No. 6489153
; GENERAL INFORMATION:
; APPLICANT: Ming-Hui WEI
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001305
; CURRENT APPLICATION NUMBER: US/09/984,880
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 20966
; TYPE: DNA
; ORGANISM: Homosapien
US-09-984-880-3
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Query Match 44.0%; Score 1130.4; DB 4; Length 20966;
Best Local Similarity 98.1%; Pred. No. 6,3e-262;
Matches 1228; Conservative 0; Mismatches 16; Indels 8; Gaps 8;

QY 1243 TGTGTTTGTCAAAAGTGAATGCTCTTACAGAGGATGAGAAATCTGAGTGCATGT 1302
Db 17724 TTTGCTGTGCCCCAGAGGTGAATGCTCTTACAGAGGATGAGAAATCTGAGTGCATGT 17783
QY 1303 GGTGATGCGAGCCCTCCAGAGAAAGGCTCTGAGACAGATTAATTAAGCTTAATCCAAA 1362
Db 17784 GGTGATGCGAGCCCTCCAGAGAAAGGCTCTGAGACAGATTAATTAAGCTTAATCCAAA 17843
QY 1363 TAGTTTAACTGAACCGTAGTTTACTGTGCGCAGGTGCCAGTCTAATAGATTAGATTG 1422
Db 17844 TAGTTTAACTGAACCGTAGTTTACTGTGCGCAGGTGCCAGTCTAATAGATTAGATTG 17903
QY 1423 TTTGAAGAATCAATCAACCATTTTGTATGAGGTTCCTCAAAATTTCTGTTCTACAGC 1482
Db 17904 TTTGAAGAATCAATCAACCATTTTGTATGAGGTTCCTCAAAATTTCTGTTCTACAGC 17963
QY 1483 ATGTTGTGTGAGAGAACTGGAGACAGGATCTTAATTTTACTTCAAGCATGTAACC 1542
Db 17964 ATGTTGTGTGAGAGAACTGGAGACAGGATCTTAATTTTACTTCAAGCATGTAACC 18023
QY 1543 TC-TTCTGACTGATGAGACCGCTCATCAGAAAGTCCCTCTCATCATGTTTCCAGTGAAG 1601
Db 18024 TCTTCTCACTGATGAGACCGCTCATCAGAAAGTCCCTCTCATCATGTTTCCAGTGAAG 18083
QY 1602 CCAGGATTTGCTTCTCTGAGCATGTAATTTTCTTGAACATATGTTTCACTTA 1661
Db 18084 CCAGGATTTGCTTCTCTGAGCATGTAATTTTCTTGAACATATGTTTCACTTA 18143
QY 1662 TCACCAAAATATCTGAGAGACCTGTTTACTGAGACAGACAGGTGTACAGAAAGCAG 1721
Db 18144 TCACCAAAATATCTGAGAGACCTGTTTACTGAGACAGACAGGTGTACAGAAAGCAG 18203
QY 1722 CAGACAAATTTTCAATATGACAGAGAGACCCGAGAGCTCTGCTTCTCTTACATGAGC 1781
Db 18204 CAGACAAATTTTCAATATGACAGAGAGACCCGAGAGCTCTGCTTCTCTTACATGAGC 18263
QY 1782 ATGCTGATGAGATGTCATATGAGCCATTTGAGCTTCTTCCACATCTGATGCACTGTC 1841
Db 18264 ATGCTGATGAGATGTCATATGAGCCATTTGAGCTTCTTCCACATCTGATGCACTGTC 18523
QY 1842 TGAATGGCTGCTGCTGATCTCTCTCAATGCCAATTTCTAGTGAAGGATGTTCTGACAG 1901
Db 18324 TGAATGGCTGCTGCTGATCTCTCTCAATGCCAATTTCTAGTGAAGGATGTTCTGACAG 18382
QY 1902 GCTGCTATGATGCTGCTGAGCCCAAGGAGACATCCCTGAGAGGCAATTTTGGGTAGGA 1961
Db 18383 GCTGCTATGATGCTGCTGAGCCCAAGGAGACATCCCTGAGAGGCAATTTTGGGTAGGA 18441
QY 1962 ACACCTTAACAAGAGGATGATCTTGTGTCTGAGGCTCAGAGCCCTTTGATAGGTTTC 2021
Db 18442 ACACCTTAACAAGAGGATGATCTTGTGTCTGAGGCTCAGAGCCCTTTGATAGGTTTC 18501
QY 2022 TGATGATTCATTAAGACATTTGAGGAGAGATGCTTCCAACTGCAATTAATCAACCTTC 2081
Db 18502 TGA-GTATATATTAAGACATTTGAGGAGAGATGCTTCCAACTGCAATTAATCAACCTTC 18560
QY 2082 TCTGAATTAATTTTGTGTTATTTATTTCTTTCTTTTCTTAAAGATGGCTCTGA 2141
Db 18561 TCTGAATTAATTTTGTGTTATTTATTTCTTTCTTTTCTTAAAGATGGCTCTGA 18619
QY 2142 ATAGAAATGCAATTTTCCATCTGAATGATGATATCAATTTAGCCAAATCCAGTAATTTA 2201
Db 18620 ATAGAAATGCAATTTTCCAT- TGAATGATGATATTTAGCCAAATCCAGTAATTTA 18678
QY 2202 TTTATATTAATCTATATCAATATATGTTTCTGAGCATAGAGATAGATTCAATTAATTA 2261
Db 18679 TTTATATTAATCTATATCAATATATGTTTCTGAGCATAGAGATAGATTCAATTAATTA 18738
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	Query Match	Similarity	Score	DB 3	Length	4411529
Best Local	267	47.7%	Pred. 70.4	DB 3	4411529	
Matches	267	conservative	0	Mismatches	291	Indels 2; Gaps 2;
QY	91	CGGGGTCTGCGCCTTGAGGAGCCATGAGCTCGCCGCTGCGCTTGGTCTCTGAGACTTCCCGACTG	150			
Db	3944636	CGGGCCACCGGATGCGCGCGCGTGTGCGCATTTGCTCTCCGCGCCGCGGTTGCGCGCGCGTTCGCGCGCG	3944577			
OY	151	CACCTGAGCTACTTTCGCGCTTAGGCGCGCGAGCGCCCGCGCGAGCGAGAGCGCGCCCGAGACC	210			
Db	3944576	CATTGCGCGCGCGCGACCGCGCGCTGCGCGCGCGGATGCGCGCGCTGCGCGCGCGGATGCGCGCGACCC	3944517			
OY	211	CGGCTGCGGCGCGCTGTTGGGAGCCCGCGAGCGCGACTTACTCGCTGTGCGGTGCGCCGTGAC	270			
Db	3944516	GGGGATGTCGCCAGAGGCGCGCGGTGTCGCGCGCGGTGCGCGCGCGCGCGCGCGCGCGCGCGTCC	3944577			
OY	271	CCCGGAGCGCGCGAGCTTGGGAGGCGCGGAGTTCGAGCGCGCGCGCGCGGTGACACAGAGCGCTGTGTCGA	330			
Db	3944456	CGCGCGCGGTCGCGCGGATGCGCGCGCATGCGCGCATTT-GCGGCGCGACCGCGCGGTGCGC	3944398			
OY	331	CGAGTGGCGCGCGGCGCCCTTTCAGAGGAGTGCAGGCTGCTACTGCTGCTACTGCGC	390			

	Query Match	2.7%;	Score 68.8;	DB 3;	Length 4403765;
	Best Local Similarity	47.5%;	Pred. 0.00016;		
	Matches	266;	Conservative	0;	Mismatches 292; Indels 2; Gaps 2;
Qy	91	CGGGGTTGCGCGTGGGGCCATGCTCCGCCGTGCGCTTGTGCTGAGACTTCCGAC	CTG	150	
Db	3938183	CGGGCCACCGGCGCGCCCTTGTCATGCTCTCCGGCGCGGGTGGCCGCGCTTGGCG		3938124	
Qy	151	CACCTGTGCTCATTTGCGCCCTTAGAGCGCGCGACGCCCGCGCGAGCGACGCCGCCCGACCC		210	
Db	3938123	CATTGCCGGCGCGACCGCGCCCTGCGCGGGATGCGCGCTGGCGCGCGAGATCCGCGACCC		3938064	
Qy	211	CGCGCTGGCGGCGCTGTTGGGGGCCCGGAGCGAGCTACTCGCTGTCGTGCCGTTGAC		270	
Db	3938063	GGGGGTGCGCGAAGCGCCGCGGTGCGCGCGGTGCGCGCGATGCGCGCGCGCCCGCCGCTCC		3938004	
Qy	271	CCCGAGCGCGCGCTGCGGGGCGCGGGTCCGAGCGCGCGCGGCTACACAGCGGCTGTGCA		330	
Db	3938003	CGCGCGCGGATGCGCGCGGTGCGCGCATTCGCGGCATT-GCGGCGCGAGACCGCGGGTCCG		3937945	
Qy	331	CGAGCTGCGCGCGCGGCCCTTTCAGAGGATGCCAGAGCTGTAGGCTGTCTGTACTGCGCC		390	
Db	3937944	CGCGCGCGCGCATCTGCGCGCCCTGCGCGCGCGATACCGCGTTCGCGCGCTGGCGCCA		3937885	


```

? TELEPHONE: (415) 494-8700
? TELEFAX: (415) 494-8771
? TELE: 910 277289 PHT UR
? INFORMATION FOR SEQ ID NO: 50:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 756 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: double
? TOPOLOGY: linear
? MOLECULE TYPE: other nucleic acid
? DESCRIPTION: /desc = "synthetic"
JS-08-642-255-50

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Query Match	2.6%	Score 67	DB 1	Length 756
Best Local Similarity	45.3%	Pred. NO. 4.2e-06		
Matches 287	Conservative	0	Mismatches 340	Indels 6
				Gaps 1

Qy	76	GCTGCTCGAGGCGGCGGGGCTTGCCCTCTGAGGCGCAATGCTCTCCGCGGTCACGCTTCGTCCT	135
Db	1	GGATGCTCAGCGCCCAAGAGGTCCGAAGGGCGGCGATGCGCCAGGAGGCGCCGAAGAGGTGCG	60
Qy	136	GGAGCTTCCCGACCTGCACCTGGCTCACTTCGCGCTTAAGGCGCCAGCGCCCCCGGAGCGC	195
Db	61	CTTGAAACCGAGTGTATCCACCGGATGTCTCCGAGACCTTGAGAGGCCCGCCAGAGTACGCTTGA	120
Qy	196	AGACGCCCCGAGCCCCCGGCTGGCGGGCGCTGTATGGGGCCCCCGAGAGCGACGTACTGCGCT	255
Db	121	CCGGCTGATTCACCGGGGTGCTCCGGGACCTTGAGAGCGCCGACAGGTGCGCTTGAGACCGGCT	180
Qy	256	GTGCGATGCCCCGTGACCCCGGACCGCGCTGCGGGGCGCCGAGTCCGAGCGCGCGCGCTGCA	315
Db	181	GGTCAACCGGATGCTCTCGGGAACCTGAGAGCCGCGCAGAGTGGGCTTGAGACCGGCTGTGCA	240
Qy	316	CCAGCGGCTGCTGACACAGCTGCGCGCGGCCCTTCAGCGGTGCGAGCTGTAGCT	375
Db	241	CCGGATGCTTCGGGAACTTGAGAGCCGCGCAGGTGCGCTTGAGACCGGCTGTGTCAACCGAGT	300
Qy	376	GCTGTGCTATGCGCCGAGGCGGCCAGGCGCGGCGGCGCACAGCAAGGCTTCTGTGTCGGA	435
Db	301	GCTCCGGAACCTGAGAGCCCGCCAGGTGCGCTTGAGACCGGCTGTGTCACACCGAGTCTCG	360
Qy	436	CCCCCTGAGTACCTTGACACCCGAGCAGCGCTGTGAGCTGAGCTGTGAGCGCGCTGCGAGA	495
Db	361	GGACCTGAGGCGCGCGCAGGTGCGCTTGACCGGCTGTGTCACCGGATGCTCCGGAACCT	420
Qy	496	GGACACACCGCCGACCTTGAGGCGAGTTCCAGGCGCAGCCCGCGCGGCGCAGCTGTGCAAG	555
Db	421	GCAGGCGCGCGCAGAGTACGCGCTTGAGACCGGCTGTGTTCACACCGGATGCTCCGGAACCTTGAGG	480
Qy	556	CCATGAGAGGTGACAGAGCGGACGCGGCTGAGAGGTGGGCTGCGACAGATGTAGGCC--	615
Db	481	CCGCGCAGGTGCGGCTTGACCGGCTGTGTCCACCGGATGCTCCGGAACCTTGAGAGCCGCA	540
Qy	614	---GTGCCGAGACCCCGCTGACCCGAGTGTGTCAGACTTGTCCAGTCTGTGTCTT	665
Db	541	GGTATGCGCTGAGACCGGCTGTGTCCACCGGATGCTCCGGAACCTTGAGAGCCGCGCAGAGTGC	600
Qy	670	CCCGAGACCGGAAAGCGCCCGGCGGCTTTTGA	702
Db	601	CTTGAGACCGGCTGTATCACCGGATGCTTCGGA	633

RESULT 12
 US-09-949-016-15796/c
 : Sequence 15796, Application US/09949016
 : Patent No. 6812319
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: VENTER, J Craig et al.
 :
 : TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 : WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 : FILE REFERENCE: CL001307
 :
 : CURRENT APPLICATION NUMBER: US/09/949,016
 :
 : CURRENT FILING DATE: 2000-04-14

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? PRIOR APPLICATION NUMBER: 60/241,755
? PRIOR FILING DATE: 2000-10-20
? PRIOR APPLICATION NUMBER: 60/237,768
? PRIOR FILING DATE: 2000-10-03
? PRIOR APPLICATION NUMBER: 60/231,498
? PRIOR FILING DATE: 2000-09-08
? NUMBER OF SEQ ID NOS: 207012
? SOFTWARE: FASTSEQ for Windows Version 4.0.0
? SEQ ID NO: 15796
? LENGTH: 41106
? TYPE: DNA
? ORGANISM: Human
US-09-949-016-15796

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Query Match	2.6%	Score 66.2	DB 4	Length 41106
Best Local Similarity	47.0%	Pred. No. 5.5e-05		
Matches 275, Conservative	0	Mismatches 303	Indels 7	Gaps 2

OY	34	GGCTTGGCCCGCGCGCTCTTGGCGGAGGCACTGTGGGAGCGCTCTCGGCGCGCGCG	93
Db	40230	GGCGCGCGCGCGCGCGCTCTTCTCGAGCGCGTGGGCTCGAGAGCAGGTGGCGCGG	401711
OY	94	GGTCTGGCGTGGGGCCATGAGCTTCGCGCGCTTCTGTTCTGAGACTTCCGACTGCAC	153
Db	40170	GGCCCGGCGGAGGCTGAGGCGCGACCCACACACAGGTCTGATCTCAAGCGCGCGT	401111
OY	154	CTTGGCTCACTTGGCCCTAGAGCGCCGACGCCCCCGGACGACGACAGAGCCCCCGACCCCG	213
Db	40110	CGGCGAGGGGAGACGCGCGCGCGGTAGCGCGCGCGCGCGAGGCGCGAGCCACGCTCTTCA	400511
OY	214	CTTGGAGCGCGCGCTGTTGGGGCCCCCGGAGGACGACTACTCGGTGTCGTGCGCGTGAACCC	272
Db	40050	GACACAGCGCGCGACACTCTGAGTCTGCGCGCGGGTAGGCGGCCACAGGCGACAGCCGCTT	399911
OY	273	CGAGCGCGCGCTGCGGAGGCCCGGAGT-----CGGCGCGCGCGGCTGACACAGCGCTTGC	326
Db	39990	CGAGCGCTCTTGCAGAGGCGGACAGCTACGCTCTCTGAGAGCGCGCGGGGAGCGCG	399311
OY	327	TGCACGACTGTCGCGCGCGGCCCTTTCAGAGGTGTCAGCTGCTCAGAGCTGCTCTGCTACT	386
Db	39930	GGCGCGCGCGCGCGCGGAGGTGCGCGCGCGGAGTGCAGAGCAGGCTGACCGCGCAGC	398711
OY	387	GGCGCGCGCGCGCGAGCGCGCGCGGACACAGCAGCTTCTGCTGCGCGGACCCCTTGGAGT	446
Db	39870	GCGCGCGGAGCTCTGCGCGCTGTCTGCGCGCGCGCGCGCGCGCGCTCTGCGCG	398111
OY	447	ACCCTGACACCGGACAGCGCTCTTCTGAGCTGTGGGCGCTTGCACGAGAGGACACACGCG	506
Db	39910	TGTGGCGGCGCCCAACAGGACACAGCAGCTTGTGTCTCTCGGCTCCAGTATGGCCGAG	397511
OY	507	CGCACTTGGGCGATTGAGAGCGGACCGCGCGCGCGCAGCTGTGGCAGCGCTCTTGGAGG	566
Db	39750	CCCTTGGCTGTGCTCAGAGAGCCGGCGCGGGGTATACAGGCGCGTATGCGCGGTGGTGG	396911
OY	567	TGCAGACGCGCAGGCGGCTGCAAGTGGGCTGGCACAAGTCTGTC	611
Db	39690	CGGCTGCGGCGCGCTCTCTCTGTGGCGCGGTATAGCTGTGCGCG	39646

RESULT 13
 US-09-902-540-8819/C
 ; Sequence 8819, Application US/09902540
 ; Patent No. 6833447
 ; GENERAL INFORMATION:
 ; APPLICANT: Goldman, Barry S.
 ; APPLICANT: Hinkle, Gregory J.
 ; APPLICANT: Slater, Steven C.
 ; APPLICANT: Wiegand, Roger C.
 ; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
 ; FILE REFERENCE: 38-10(1584)B
 ; CURRENT APPLICATION NUMBER: US/09/902,540
 ; CURRENT FILING DATE: 2001-07-10
 ; PRIOR APPLICATION NUMBER: 60/217,883

PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 8819
; LENGTH: 6645
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-8819

Query Match 2.6%; Score 65.8; DB 4; Length 6645;
Best Local Similarity 46.8%; Pred. No. 2.6e-05;
Matches 285; Conservative 0; Mismatches 312; Indels 12; Gaps 2;

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QY 5 GCCAGAGGCGGCGTCTGCTGAGAGCGCCCAATGAGCTTTGCGCGCGCTCTGCGGGGCCA 64
Db 3471 GTCCAGAGGCTCTCCGCGGCAAGAGCGCTTCCGCGGCTCAAGTGAAGCGGCGCTC 3412
QY 65 CTGTGCGGCGCGCTGCTGCGGCGCGCGGCGCTGCGGCGCGCGCGCGCGCGCGCG 124
Db 3411 GCGGAGAGCGGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3352
QY 125 CGCTTCGCTGAGAGCTTCCGAGTGAACCTGAGCTCACTTCCGCGCGCGCGCGCGCG 184
Db 3351 GCGGAGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3292
QY 185 CCGGCGCGA-----CGGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 238
Db 3291 CGCGGCGCTGAGCTGGAAGGCTGAGTCTGCGCAAGAGCGCGCGCGCGCGCGCG 3232
QY 239 GAGGCGAGTACTGTGCTGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 298
Db 3231 CGCGGAGAGCGAGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3172
QY 299 CGGCGCGCGCGCGCTGAGCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 358
Db 3171 CTGCGCGCTGCGGAGCTAGCTGCGGAGCGCGCGCGCGCGCGCGCGCGCGCG 3112
QY 359 TGCAGCTGCTCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 418
Db 3111 GCGGAGGCTGCGGAG-----CGAAGAGCGGCGCGCGCGCGCGCGCGCGCG 3058
QY 419 GCGCTGCTGCTGCGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 478
Db 3057 CGGCTGGAATCTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2998
QY 479 CTGCGCGCGCTGCGGAGAGCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 538
Db 2997 CGCGGTGAGTTCAGAGTTCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCG 2938
QY 539 GCGGAGCTGCGGAGCGCGCTTGGAGGTGCAAGAGCGGAGCGGCGCGCGCGCG 598
Db 2937 GGACTCCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2878
QY 599 GCACAGGTC 607
Db 2877 GCGAGCGGC 2869
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RESULT 14
US-09-902-540-938/c
; Sequence 938, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/902,540
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825

; SEQ ID NO 938
; LENGTH: 10210
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-938

Query Match 2.6%; Score 65.8; DB 4; Length 10210;
Best Local Similarity 46.8%; Pred. No. 3.3e-05;
Matches 285; Conservative 0; Mismatches 312; Indels 12; Gaps 2;

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QY 5 GCCAGAGGCGGCGTCTGCTGAGAGCGCCCAATGAGCTTTGCGCGCGCTCTGCGGGGCCA 64
Db 3846 GTCCAGAGGCTCTCCGCGGCAAGAGCGCTTCCGCGGCTCAAGTGAAGCGGCGCTC 3787
QY 65 CTGTGCGGCGCGCTGCTGCGGCGCGCGGCGCTGCGGCGCGCGCGCGCGCGCGCG 124
Db 3786 GCGGAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3727
QY 125 CGCTTCGCTGAGAGCTTCCGAGTGAACCTGAGCTCACTTCCGCGCGCGCGCGCG 184
Db 3726 CGCGAGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3667
QY 185 CCGGCGCGA-----CGGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 238
Db 3666 CGCGGAGCTGAGCTGGAAGGCTGAGTCTGCGCAAGAGCGCGCGCGCGCGCG 3607
QY 239 GAGCGAGTACTGTGCTGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 298
Db 3606 CGCGGAGAGCGAGCGGCGGCGGCGGAGAGTACTCTCCGCGCGCGCGCGCG 3547
QY 299 CGGCGCGCGCGCTGAGCAAGCGCGCTGCTGCAAGAGCTGCGCGCGCGCGCGCG 358
Db 3546 CTGCGCGCTGCGGAGCTAGCTGCGGAGCGCGCGCGCGCGCGCGCGCGCG 3487
QY 359 TGCAGCTGCTCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 418
Db 3486 GCGGAGGTGCGGAG-----CGAAGAGCGGCTGCGGAGCGGCGCGCGCG 3433
QY 419 GCGCTGCTGCTGCGGAGCGCGCTTGGAGTGAACCTGAGCAAGCGGAGCGCTG 478
Db 3432 CGGCTGGAATCTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3373
QY 479 CTGCGCGCGCTGCGGAGAGCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 538
Db 3372 CGCGGTGAGTTCAGAGTTCGCGGCGCGCGCGCGCGCGCGCGCGCGCG 3313
QY 539 GCGGAGCTGCGGAGCGCGCTTGGAGGTGCAAGAGCGGAGCGGCGCGCGCGCG 598
Db 3312 GGACTCCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3253
QY 599 GCACAGGTC 607
Db 3252 GCGAGCGGC 3244
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RESULT 15
US-10-237-551-193
; Sequence 193, Application US/10237551
; Patent No. 6621519
; GENERAL INFORMATION:
; APPLICANT: Day, Craig H.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Parsons, Joseph M.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
; FILE REFERENCE: 210121.538C3
; CURRENT FILING DATE: 2002-09-06
; NUMBER OF SEQ ID NOS: 254
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 193
; LENGTH: 3957
; TYPE: DNA

ORGANISM: HSV2
US-10-237-551-193

Query Match 2.6%; Score 65.6; DB 4; Length 3957;
Best Local Similarity 45.5%; Pred. No. 2.2e-05;
Matches 314; Conservative 0; Mismatches 369; Indels 7; Gaps 2;

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QY 7 CGAGGAGCGGCGCTCGCTGAGAGCGCCCATGAGCTTTGCGCCCGCGGCTCTGCGCGGCGCACT 66
DB 1668 CCACGACCGCGACGACGCGCCCGGAGAGCCCGCGCCCGCGCCCGCTTGCCTGCGCGC 1727
QY 67 GTGCGAGCGGCTGCTCGGAGCGGCGGAGGAGTCTGCGCTGAGGCGCATGAGCTTCCGCGCG 126
DB 1728 GCGGCGGCTGCGCGCGCGCGAGCGGCGGAGTGCCTGCGCTACGAGCGCGCGGAGTCT 1787
QY 127 CTTCGCTCTGAGCTTTCCGACCTGACCTTGCCTTCACTTTCGCTTACGAGCGCGAGCCCG 186
DB 1788 CGCGCGCGCTGAGGCGCGCTGAGCGCGCGCGCGCTTCCGCGCGCGCGCGCGCGCGCGAG 1847
QY 187 CGGCGACGACAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 246
DB 1848 CGACGACGACGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1902
QY 247 CTACCTGCTGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 306
DB 1903 CGCGTGCCTGAGAGTGCCTTGCAGCGCGCTTGCAGCGCGATCTGAGAGCGCTGAGCGAG 1962
QY 307 GCGGCTGACGACGCGCGCTGACGACGAGTGCAGCGCGCGCGCGCGCGCGCGCGCGCG 366
DB 1963 TTGACGCGCGAGCTGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2022
QY 367 GCTCAGGCTGCTTGTCTACTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 424
DB 2023 CGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2082
QY 425 CTGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 484
DB 2083 TGGCTGCGCGAGCTGCGGTTGTGCGCGAGCGCGCTGTGATGCGCTTGCAGCGAGAC 2142
QY 485 GCTGCGCGAGAGGACACAGCGCGCGCGCTTGGAGCGAGTTCAGAGCGCGCGCGCGCG 544
DB 2143 CTGCGCGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2202
QY 545 CTGTCGACGCGCGCTTGTGAGAGTGCAGAGCGCGAGCGCGCTTGCAGAGTGGCTGCG 604
DB 2203 GCGCGGCGCGCTGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2262
QY 605 GTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 664
DB 2263 GCGCGCGCGAGCTGCTTTCAGAGACGAGAGCTTGCCTGCTGCGCGAGACCGTTC 2322
QY 665 GTCTTCCCGAGCGCGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 694
DB 2323 GCGCGCGCGAGCTGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2352
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Search completed: February 28, 2005, 19:24:23
Job time : 446 secs

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